TalkSwitch

DESKTOP PHONE SYSTEM

Phone System Solutions for:
Smart homes
Home businesses
Small offices
Branch/Remote offices

User Guide

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1 Installing TalkSwitch

1.1 What's included with TalkSwitch

The TalkSwitch products come shipped with the following items.

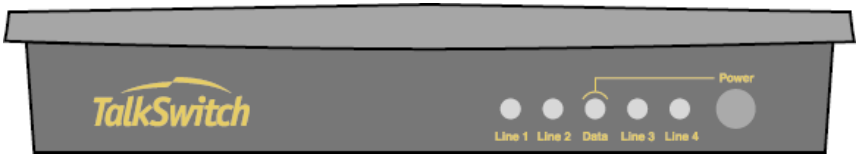
1. The TalkSwitch Unit
2. AC Power Adapter (Warning: never use any other Power Adapter other than the one provided with the TalkSwitch.)
3. 9 pin Serial Cable
4. 6' RJ-11 Telephone Cable - (2)
5. Software CD (This contains the configuration software that you can use to setup and configure TalkSwitch)
6. User Manual

If any of these items are missing, please contact Centrepoint Technologies Customer Support at (613) 725-2980 or e-mail: help@talkswitch.com.

1.2 Front Panel Descriptions

TalkSwitch's front panel consists of a power button ("Power") and 5 LED lights that do more than let you know TalkSwitch is plugged in and turned on.

What do the LED lights tell you?

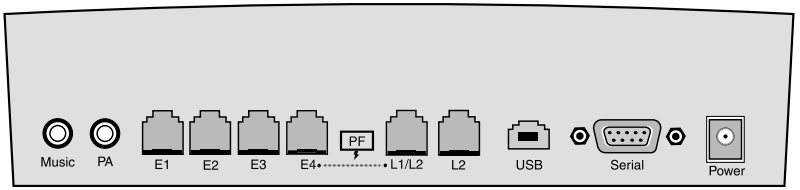


LED light:	State	Description
Line 1	On Solid	Line 1 is currently in use.
	Pulsing Slowly	The Line 1 caller is on hold.
	Flickering	Line 1 is ringing
Line 2	On Solid	Line 2 is currently in use.
	Pulsing Slowly	The Line 2 caller is on hold.
	Flickering	Line 2 is ringing.
Power / Data	On Solid	TalkSwitch is powered on.
	Flickering	The PC connected (via serial or USB port)to TalkSwitch is either sending or retrieving information from TalkSwitch.
Line 3	On Solid	Line 3 is currently in use.
	Pulsing Slowly	The Line 3 caller is on hold.
	Flickering	Line 3 is ringing
Line 4	On Solid	Line 4 is currently in use.
	Pulsing Slowly	The Line 4 caller is on hold.
	Flickering	Line 4 is ringing.

1.3 Back Panel Descriptions

What to plug-in and where for each model.

1.3.1 The TalkSwitch 24

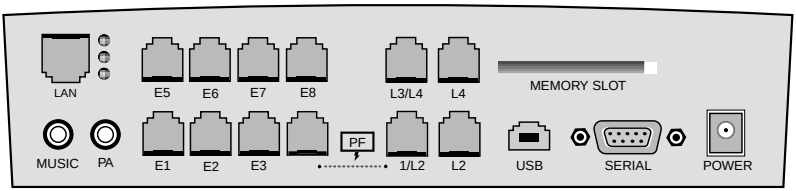


Jacks/Ports	What to plug in
MUSIC	Plug in a radio, CD player, PC soundcard or any other device that emits an audio signal if you wish to use TalkSwitch's Music-on-Hold feature. This is a 1/8" (3.5 mm) phono jack. Mono cables are recommended.
PA	Connect to a P.A. system if you wish to use the external paging feature. This is a 1/8" (3.5 mm) phono jack. Mono cables are recommended.
E1, E2, E3, E4	Plug in any analog device that uses a standard (RJ-11) telephone jack, such as: telephones, answering machines, fax machines, internal or external PC modems. Once these devices are plugged in, TalkSwitch will recognize them as Ext. 111, Ext. 112, Ext. 113, or Ext. 114.
L1/L2, L2	This is where you plug in your telephone lines (RJ-11). If you have 2 lines out of 1 phone jack, you can plug into the L1/L2 jack.
USB	Use the USB port if your PC supports USB connectivity. If you use the USB port, you cannot use the serial port simultaneously.
SERIAL	Attach the supplied serial cable (RS232) that connects TalkSwitch to your PC. If you use the serial port you cannot use the USB port simultaneously.
POWER	Plug the supplied AC Power Adapter in here.

By default, TalkSwitch is set to Serial connection. To activate USB connection, dial #91# from an extension. To return to Serial connection, dial #90#.

The 'PF' box in between E4 and L1/L2 represents power failure support. In the event of a power failure or loss of power to the TalkSwitch, Extension 4 will be able to receive calls and make calls on Line 1.

1.3.2 The TalkSwitch 48LS



Jacks/Ports	What to plug in
MUSIC	Plug in a radio, CD player, PC soundcard or any other device that emits an audio signal if you wish to use TalkSwitch's Music-on-Hold feature. This is a 1/8" (3.5 mm) phono jack. Mono cables are recommended.
PA	Connect to a P.A. system if you wish to use the external paging feature. This is a 1/8" (3.5 mm) phono jack. Mono cables are recommended.
LAN PORT	You can connect to an Ethernet hub using a Category 5 cable with RJ-45 connectors. For future use.
E1 - E8	Plug in any analog device that uses a standard (RJ-11) telephone jack, such as: telephones, answering machines, fax machines, internal or external PC modems, etc. Once these devices are plugged in, TalkSwitch will recognize them as Extensions 111 to 118.
L1/L2, L2, L3/L4, L4	This is where you plug in your telephone lines (RJ-11). If you have 2 lines out of 1 phone jack, you can plug into the 1/2 and 3/4 jacks.

USB	Use the USB port if your PC supports USB connectivity. If you use the USB port, you cannot use the serial port simultaneously.
SERIAL	This is where you attach the supplied serial cable (RS232) that connects TalkSwitch to your PC. If you use the serial port, you cannot use the USB port simultaneously.
MEMORY SLOT	Memory expansion slot. Used to expand internal memory for voicemail and Auto Attendant messages. TalkSwitch Memory cards can be purchased from your reseller or from Centrepoint Technologies.
POWER	Plug the supplied AC Power Adapter in here.

By default, TalkSwitch is set to Serial connection. To activate USB connection, dial #91# from an extension. To return to Serial connection, dial #90#.

The 'PF' box in between E4 and L1/L2 represents power failure support. In the event of a power failure or loss of power to the TalkSwitch, Extension 4 will be able to receive calls and make calls on Line 1.

1.4 Plugging into the Back Panel

1.4.1 Attaching telephone lines to TalkSwitch line jacks

You can connect your telephone lines from the wall jack(s) to the TalkSwitch Line jacks with the phone cables provided. Take note of which telephone line is connected to which Tel Line number - this information will be used in the configuration section.

TalkSwitch works with many telephone company services such as 3-Way Calling and Distinctive Ring. For more information on phone company services, see Appendix B.

1.4.2 Attaching phones and other analog devices to TalkSwitch extension jacks

You can connect any analog device to TalkSwitch's extension jacks. Multiple devices can be connected to each extension jack by 'chaining' them together or using a line splitter. In total, TalkSwitch is capable of managing a total of 20 electronic ringing devices in addition to its internal modem, without overpowering the telephone lines.

Use TalkSwitch's extension jacks to connect your:

- Analog Telephones (single or multi-lined, corded or cordless)
- Fax Machine
- Answering Machine
- Internal or External PC Modem

To Attach a Single Line Corded or Cordless Telephone and/or a Fax Machine:

Connect your single line analog telephone or fax machines to one of TalkSwitch's extension jacks (E1 to E4 for the TalkSwitch 24 and E1 to E8 for the TalkSwitch 48LS) just as you would if you were plugging them into a standard telephone wall jack.

To Attach a Two--line Analog Telephone:

Option # 1 (Use it as one TalkSwitch extension.)

Disregard the telephone's Line 2 jack (plug-in). Connect the telephone's Line 1 plug-in to any one of TalkSwitch's extension jacks. You will still be able to access both telephone lines in the same manner as if you were using a single line telephone attached to TalkSwitch.

Option # 2 (Use it as two TalkSwitch extensions.)

You could use your two-line telephone as two separate TalkSwitch extensions. Connect the telephone's Line 1 and Line 2 plug-ins to two separate extension jacks.

Most two-line phones have separate plug-ins for two incoming telephone lines (Line 1 and Line 2). If your two-line telephone does not have separate plug-ins, you can use a "Line 1/Line 2" line splitter to separate the two lines.

To Attach an Answering Machine:

Connect your answering machine to TalkSwitch's extension jacks just as you would if you were plugging it into a standard telephone wall jack. You can also plug a telephone into the answering machine, which allows you to use the extension for both messaging and telephone calls.

To Attach an Internal or External Modem:

Simply plug the modem's telephone cable into one of TalkSwitch's extension jacks. Your modem is now a TalkSwitch extension and will be able to access all Lines and take advantage of TalkSwitch's call routing features.

If you would like to use a telephone on the same extension as your modem, simply plug the telephone's cable into the modem's telephone jack. (Most modems have a telephone jack, located beside the 'Line In' jack.)

You do not have to attach a PC to TalkSwitch (via the Serial or USB ports) for your modem to be functional.

1.4.3 Connecting Devices to the Music and PA Jacks

The Music jack is designed to support any audio source (CD player, radio, tape player, sound card etc.) for playing music or messages to callers while on hold. Simply connect the audio source via it's headphone output to the Music jack. The Music jack requires a 1/8" (3.5mm) phono connector.

The PA jack can be connected to a P.A. System for external paging or to an amplification system to screen voicemail or to use as a line simulator. The PA jack requires a 1/8" (3.5mm) phono connector.

1.4.4 Connecting TalkSwitch to a PC

There are two ways to connect TalkSwitch directly to your PC for configuration - Serial and USB.

Serial: Use the provided serial cable (RS232) to connect TalkSwitch to an open COM port on your PC.

USB: Use a USB cable to connect TalkSwitch to an available USB port on your PC or USB hub.

By default, TalkSwitch is set to Serial connection. To activate USB connection, dial # to enter command mode, if you have an Administrator password enabled, enter the password. Dial 91 then # to complete the command. To return to Serial connection, enter command mode then dial 90#.

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2 Configuring TalkSwitch

The following chapter describes how to configure TalkSwitch with the configuration software, and in some cases, the corresponding touch tone commands for configuration using a telephone. It also includes tips on selecting the configuration option(s) best suited to your needs.

2.1 Installing the TalkSwitch Configuration Software

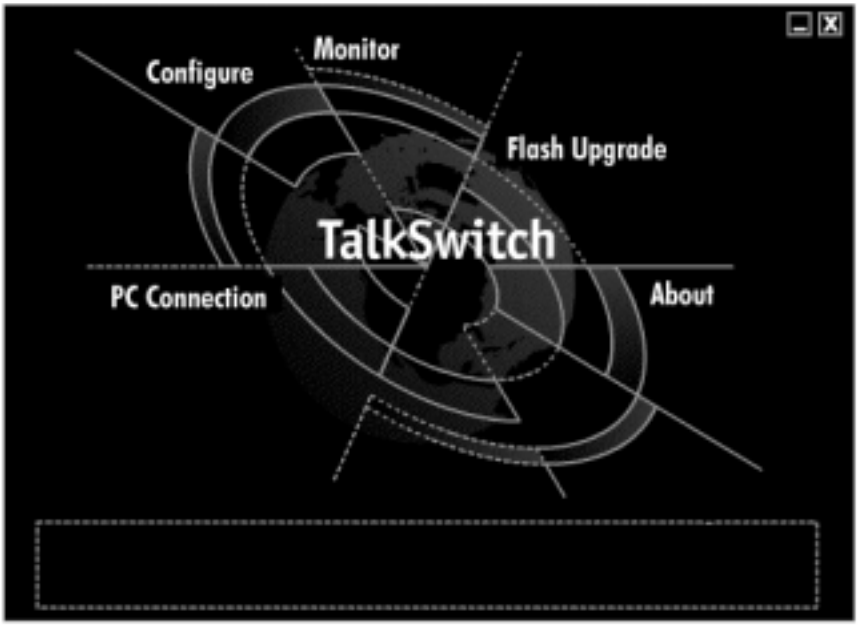
Insert the TalkSwitch CD into your CD drive. The Install program will automatically launch. Double-click the Install icon and follow the instructions on the screen.

Configuration software system requirements:

- PC running Windows 95/98
- 12 MB free hard disk space
- An available Serial or USB port
- 800x600 minimum video resolution

2.2 Control Centre

After installation is complete, double-click the TalkSwitch icon. Once TalkSwitch software has been opened, the following screen will appear. This is the Control Centre for the TalkSwitch software.



PC Connection:

Choosing PC Connection allows you to choose the correct COM port when connecting TalkSwitch to the PC.

Configure:

Choosing Configure brings up the configuration software.
(see section 2.3**)**

Monitor:

Choosing Monitor brings up the TalkSwitch Monitor window. The Monitor allows you to 'see' a graphical representation of the calls as they flow to and from TalkSwitch and it's extensions and lines. This feature is useful as a diagnostic tool when testing your TalkSwitch settings. You should choose 'Normal' as the mode of operation unless you are using TalkSwitch as a Line Simulator.

Flash Upgrade:

This activates the TalkSwitch Firmware Update procedure. Follow the instructions accordingly.

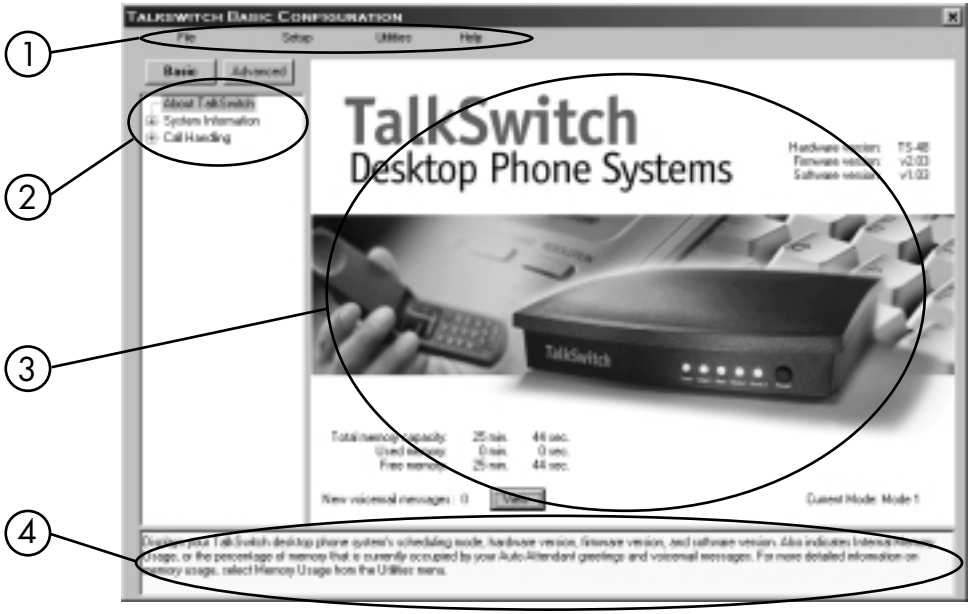
About:

Displays the TalkSwitch software version number, TalkSwitch version number and Copyright information

2.3 Configuration

From the Control Centre choose Configure. The following screen will appear:

The configuration screen consists of 4 parts:



1. Menu Items

2. Configuration Navigation

Controls what is displayed in the configuration window

3. Configuration Window

Displays configuration tabs.

4. iGuide Window

Displays helpful information about what is displayed in the configuration window

Menu Items - File

Retrieve settings:

Retrieves settings from TalkSwitch connected to the PC.

Open File...

Opens existing configuration files from the PC. Default configuration files are included with the software. TalkSwitch also backs up to a file called "LastSavedConfig.dat" every time you save settings to TalkSwitch.

Save to TalkSwitch

Saves the current configuration to TalkSwitch.

Save to file...

Saves the current configuration to a file.

Exit

Closes the Configuration and returns to the Control Centre.

Menu Items - Setup

Set active mode

Changes the current mode of operation.

Add Local Extension

Allows you to easily configure a new Local Extension.

Add Remote Extension

Allows you to easily configure a new Remote Extension.

Add Ring Group

Allows you to easily configure a new Ring Group.

Defaults...

The feature brings up a dialog box which allows you to change the current information in the Configuration window to its defaults, or change the whole configuration to its defaults.

Menu Items - Utilities

Memory Usage:

Displays a dialog box showing internal memory usage for Voicemail or Auto Attendant messages.

Voicemail Manager:

Displays a dialog giving you options to check the status of all voicemail, delete a mailbox password, and reset mailboxes **(**this resets the mailbox back to factory default and clears all messages and greetings**).**

Menu Items - Help

TalkSwitch Help:

Opens the TalkSwitch Help file. You can search through the contents for useful information. Help is also accessible by pressing the 'F1' key while the Configuration is open.

Support on the Web:

Launches your browser and directs you to our support site.

TalkSwitch Help:

Displays the TalkSwitch software version number, TalkSwitch firmware version number and Copyright information.

Configuration Navigation

The Configuration Navigation organizes all the configuration topics within folders. There are two types of Configuration Navigation: Basic and Advanced. When you first open the Configuration screen, the default is the Basic view. In the Basic configuration, several features are hidden from view. It doesn't mean that you can't use them, it simply hides some of the more advanced features that you may not use initially. The following is a brief description of each configuration folder:

About TalkSwitch

This tab displays version information about the TalkSwitch software, firmware and hardware. It also displays memory usage with details about voicemail messages and Auto Attendants.

System Information

This folder allows you to configure the system setup. This includes activating lines, extensions and voicemail.

Call Handling

This folder allows you to configure how you want incoming calls to be handled. It allows you to setup your Auto Attendants and individual call handling for each line and distinctive ring number for both operating modes.

Call Back / Call Bridge Settings

TalkSwitch's Call Back and Call Bridge features are configured from this folder. Both of these features can reduce your company expenses by reducing long distance costs.

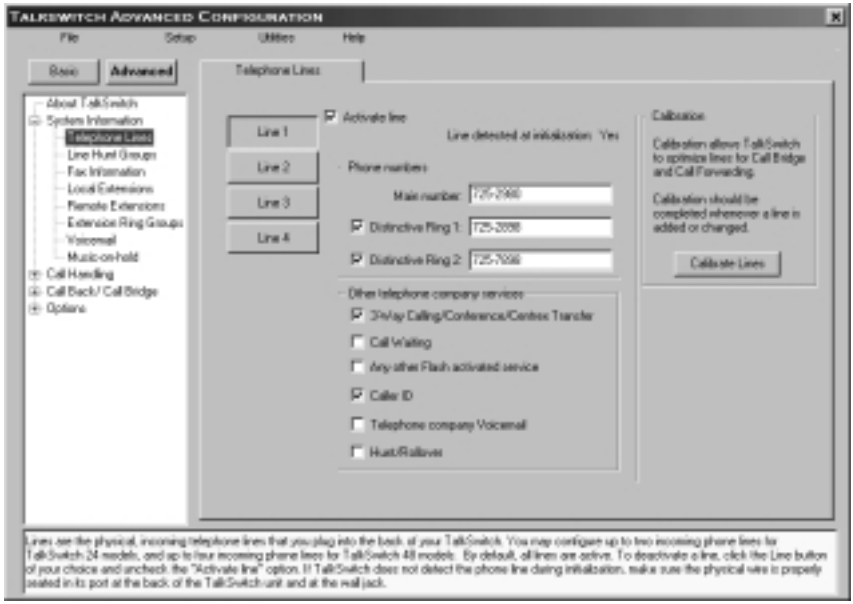
Options

In this folder, advanced settings are configured including troubleshooting issues and various operating options. Recommended for experienced users only.

2.3.1 System Information

2.3.1.1 Telephone Lines

This section tells TalkSwitch about the telephone lines plugged into its back panel. Simply select a line and fill in the information. For each line there is a status message ("Line detected at initialization") indicating if TalkSwitch detected a line plugged into each of its line port. If a line is plugged into a line port and is not detected, check your telephone line, and then choose File>Retrieve settings to update the screen.



In the "Phone numbers" section:

Enter the 'main' telephone number for the appropriate line connected to TalkSwitch. Enable the Distinctive Ring Numbers 1 and/or 2 if you have this service on the current line and wish to have incoming calls handled 'differently'

on the basis of the distinctive ring. If you want Distinctive Ring numbers handled the same way as your 'Main' number, do not place a check mark in the box.

Next, enter the 'Distinctive Ring' telephone number for each of the Distinctive Ring numbers associated to this line. Distinctive Ring 1 corresponds to any double ring pattern. Distinctive Ring 2 corresponds to any triple ring pattern.

In the "Other telephone company services" section:

Select any of the Telephone Company Services that you currently have for each line. The following is an explanation of each service and the impact of selecting each option with respect to how TalkSwitch handles calls.

3-Way Calling/Conference/Centrex Transfer:

If you select this option, TalkSwitch can work with this service to forward calls to Remote Extensions or other external phone numbers while using the same line (Same Line Connect). You can also use this service as an option for bridging calls to external numbers when calling into TalkSwitch from the outside. See Appendix B for a definition of 3-Way Calling/Conference and Centrex.

Call Waiting:

Enable this option if you have Call Waiting service on the current line.

Any other Flash activated service:

Enable this option if you use any other service that requires the use of a flash or link key other than 3-Way Calling/Conference, Transfer or Call Waiting.

Caller ID:

Enable this option if the current line provides Caller ID information (service provided by your local telephone company). TalkSwitch will pass on the Caller ID information to selected extensions. Also, TalkSwitch can use the time information provided by Caller ID to update TalkSwitch's internal clock. (see section 2.3.4.3).

Telephone Company Voicemail:

Enable this option if you are subscribed to a Telephone Company Voicemail service. If this service is enabled on a specific line, calls can be routed to this voicemail service.

Hunt/Rollover:

Enable this option if the current line is associated with a Line Hunt or Line Rollover service from the Telephone Company. You cannot use the Auto Callback feature on that particular line if you have Hunt or Rollover enabled. In general, any lines that belong to a Hunt/Rollover group should be configured to handle calls the same way.

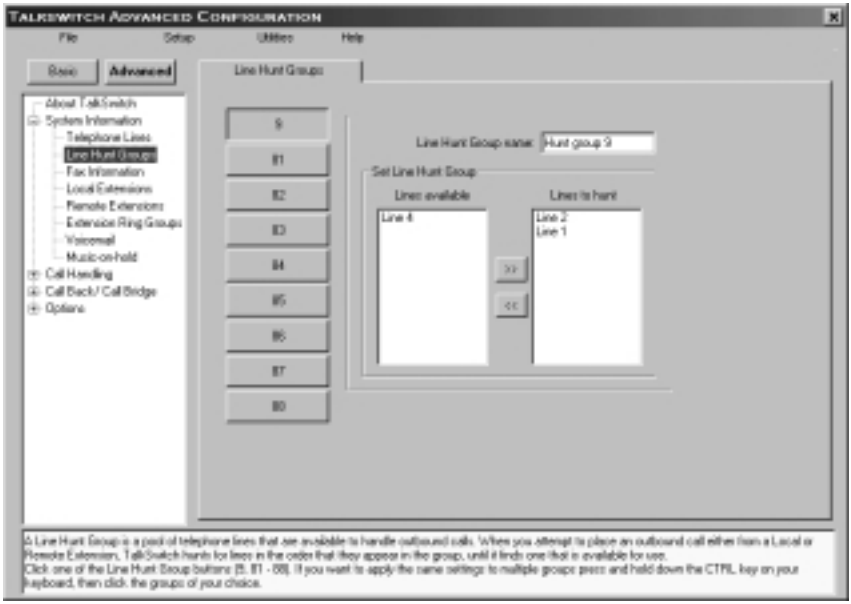
In the "Calibration" section:

After you have configured the lines, it is recommended that you calibrate the lines. Completing this procedure optimizes your telephone line volume levels for the Call Bridge and Call Forwarding (with Remote Extensions) features.

Note: Only Lines that are detected are able to be calibrated.

2.3.1.2 Line Hunt Groups

There are a total of 9 Line Hunt Groups for controlling outgoing call line selections. These Line Hunt Groups are used by the Local Extensions, Remote Extensions and when using the Call Bridge feature. Each Hunt Group can support several line choices and will attempt to grab an available line in the order that they are listed (Lines to hunt) for that Hunt group.



The default setup:

Hunt Group 9: selects any available line

Hunt Group 81: selects Line 1

Hunt Group 82: selects Line 2

Hunt Group 83: selects Line 3 (for the TalkSwitch 48 LS only)

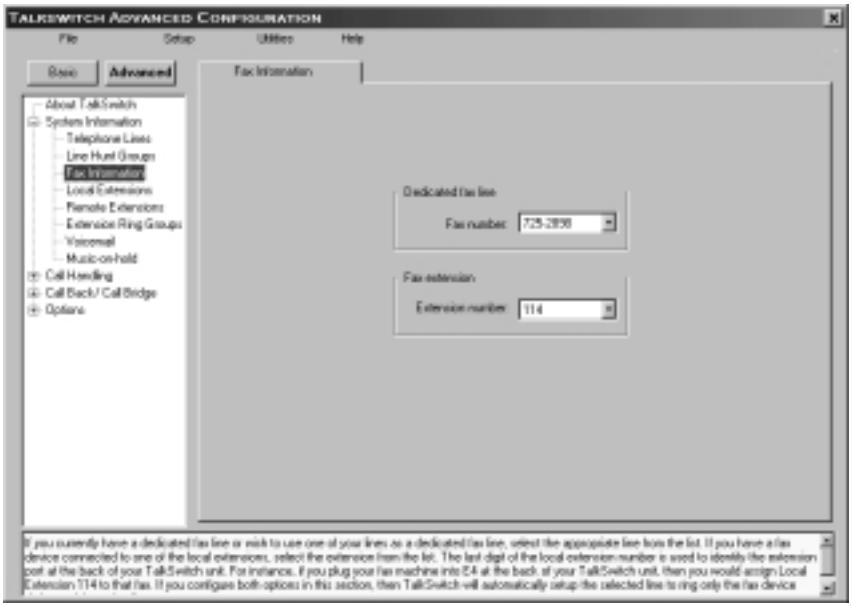
Hunt Group 84: selects Line 4 (for the TalkSwitch 48 LS only)

First select a Line Hunt Group then name the group(s) if desired.

Under Set Line Hunt Group, select the lines you wish to add to the Hunt Group from the left column 'Lines available', then click the '>>' button to move it to the right column 'Lines to hunt'. Repeat this process for the other Hunt Groups.

2.3.1.3 Fax Information

The information in this tab helps configure TalkSwitch to handle faxes.



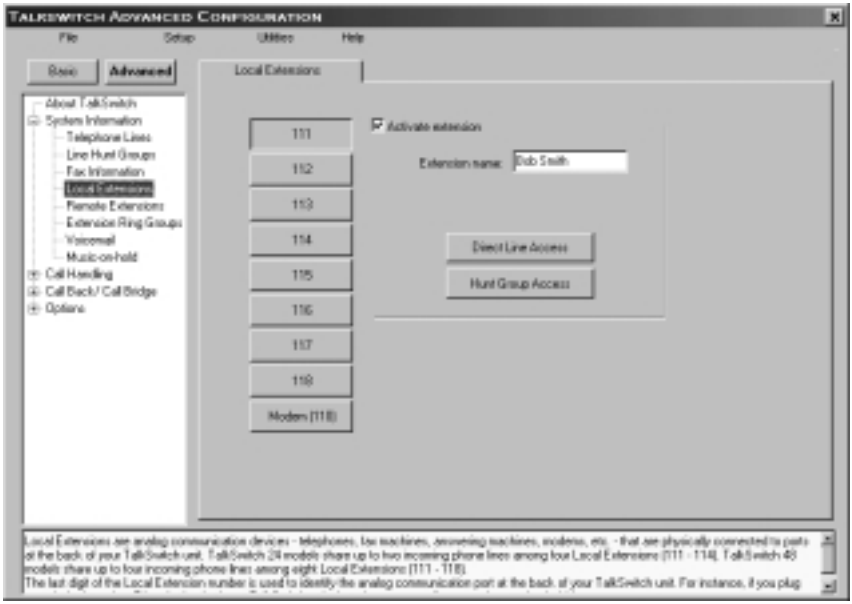
If you have a dedicated fax line or a Distinctive Ring number for faxing associated to a line, please choose this 'Fax number' in the list. If you don't have a line dedicated for inbound faxing, select 'none'. If you do not see your fax number in the list, make sure you have activated the appropriate line or Distinctive Ring number in the Telephone Lines section under System Information.

Next, select the extension number where you have your fax device connected. For example if you have your fax machine connected to E8 on the rear of the TalkSwitch, then select extension number 118.

By default, when both a dedicated line and fax extension have been selected, the software automatically configures the incoming call handling properties for that line to ring only the fax extension you specified on this page.

2.3.1.4 Local Extensions

Take note of where you want to connect your extensions. As you can see, there are either 4 or 8 physical extension jacks labeled 1 to 4 (for the 24 models) or 1 to 8 (for the 48 models).



Select any of the extensions that you wish to configure.

Local Extensions are by default activated with the associated Voice mailbox. Voice mailboxes for each Local Extension can be de-activated in the Voicemail section in the System Information folder.

If desired, name the extension in the 'Extension name' space. Whatever name is entered will appear on the Caller ID of another Local Extension during an intercom call.

Direct Line Access:

Direct line access allows you to configure the extension to access a specific Hunt Group automatically for outbound calls when the extension goes off hook. For example, you may have a computer modem connected to this extension and you may want to always restrict the usage of that modem to a specific line. In this case you would select 'Direct line access' and choose the appropriate Hunt Group. This feature is also useful if you want to avoid dialing any digits for accessing a line.

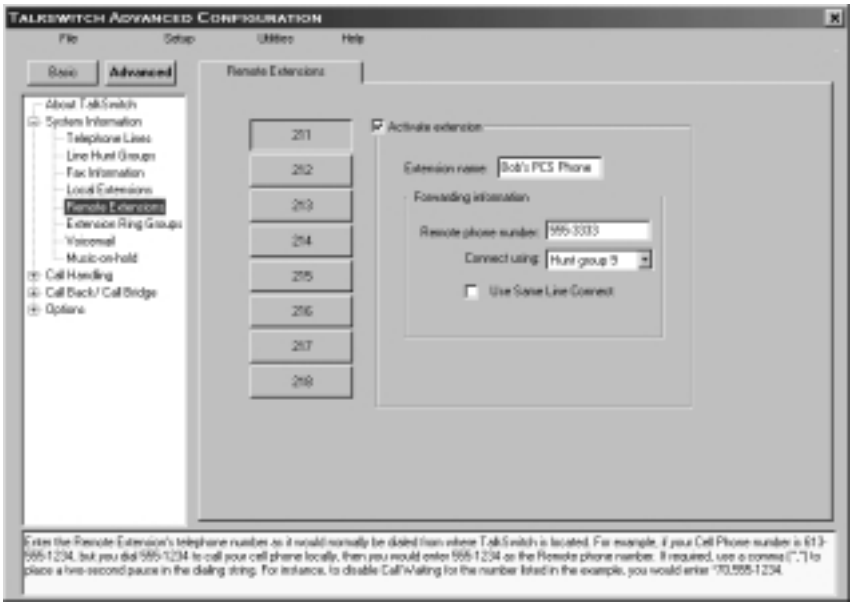
Hunt Group Access:

This is used if you want to permit or restrict specific Hunt Group access to the extension. Click the button and simply organize the appropriate Line Hunt Groups that are permitted for this extension. (All extensions are defaulted to have no restrictions.)

Warning: When using Direct Line Access, telephone company line dialtone is first available when picking up the handset. The following features are only available from TalkSwitch internal dialtone: Intercom Calling, Hold Retrieve, Line Hunt Groups, Voicemail Retrieval/Access, Call Pick Up, P.A. Access, Parked Call Retrieval, Do Not Disturb functions and entering Command Mode. To obtain internal dialtone from an extension which has Direct Line Access enabled, dial 'flash' 4.

2.3.1.5 Remote Extensions

With TalkSwitch's Remote Extensions, you can have calls forwarded directly from your home/office to any phone number you choose. Your cell phone, pager or any out-of-office number becomes a 'Remote Extension' of your office system. You can have calls forwarded directly or screen callers. If you are unavailable or choose not to accept calls, they can be transferred back to your office (e.g. to voicemail or another extension) or forwarded to another out-of-office telephone number (e.g. to a business partner's cell phone) depending upon the Cascade configuration.



TalkSwitch assigns a Remote Extension number to each call forwarding telephone number. Calls can then be forwarded by the Auto Attendant or transferred by someone in your office simply by dialing the Remote Extension number. There are 8 Remote Extensions available per TalkSwitch unit.

Choose a Remote Extension to configure. After you have activated a Remote Extension, you must first enter the phone number information. Once completed, the Remote Extension is active.

Remote phone number:

Enter the phone number of the Remote Extension (note: no specific prefixes are required - put the number in just as though you were dialing it from a regular phone). You may use the following in the space provided: digits 0 - 9, space, comma, dash, # and *.

Extension name:

If desired, name the extension in the 'Extension name' space.

Connect using:

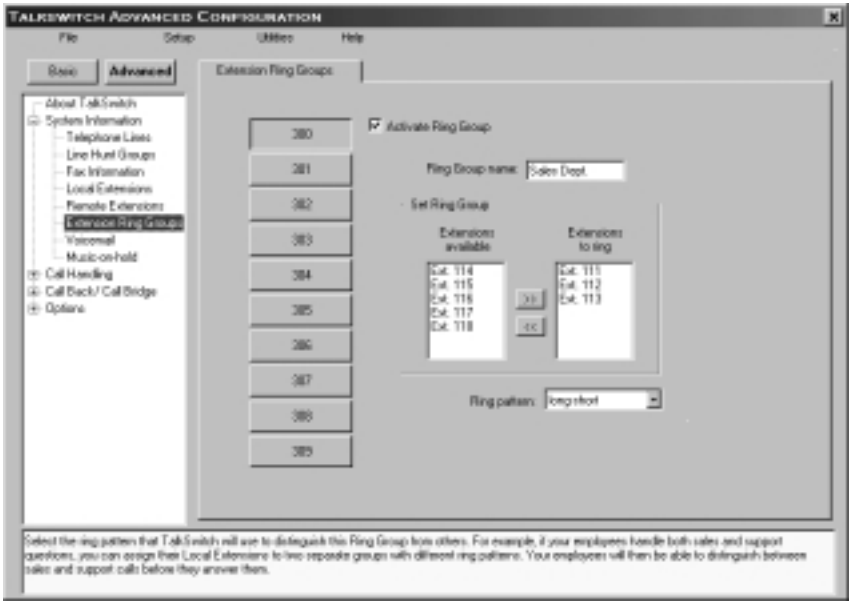
Select the Line Hunt Group that TalkSwitch will use to connect to that Remote Extension. For example if you have an inexpensive long distance carrier setup for the lines in Hunt group 84, you may want to use this Hunt Group for your long distance Remote Extensions.

Use Same Line Connect

Clicking this option allows incoming calls, when forwarded to the Remote Extension, to use the same line in which the originating call came in. Using this feature allows only one line to be used when forwarding incoming calls to a Remote Extension. This feature can only be used when the line in which the originating call came in on has the 3-Way Calling/Conference or Transfer (Centrex/Plexar) service. If the line does not have any of these services, the call will be forwarded using the Hunt Group chosen in the “Connect using:” section.

2.3.1.6 Extension Ring Groups

There are a total of 10 Extension Ring Groups available for your use. Ring Groups are extensions 300 to 309. By default, extension 300 is configured to ring all extensions.



Different uses for Extension Ring Groups:

Example 1: You are the president of a company and you don't want to handle calls from the general public, yet you want to be alerted when your important colleagues try to contact you. Your regular Local Extension may be 111 for most people, but you can also configure a Ring Group such as extension Ring Group 300 to ring your extension with a different ring pattern. You then tell your colleagues to always choose extension 300 at the Auto Attendant or ask to be transferred to extension 300 when speaking to someone in the office. Now without being subscribed to Caller ID, you can tell just by how your phone rings if you consider the caller to be important or not.

Example 2: You have a company with several departments . You may want to configure Extension Ring Group 300 for the Sales Department, in which case it will ring extensions 111, 112, 113, and 114. You may want to also set up Ring Group 301 for Technical Support, in which case it will ring extensions 115 and 116.

First select an Extension Ring Group (300-309) that you would like to configure and activate it.

You will notice that a Ring Group must have extensions listed in the 'Extensions to ring' section to allow access to the other information on the tab. If desired, name the extension in the 'Ring Group name' space.

Ring pattern:

Choose how you want the phone(s) to ring for the Ring Group.

In the "Set Ring Group" section:

To configure, select each extension that you wish to add to that Ring Group from the left column 'Extensions available', then click '>>' to move it to the right column 'Extensions to ring'. Repeat this process for each of the Extension Ring Groups activated. If you wish to remove an extension from a Ring Group, highlight that extension in the right column then click the '<<' button.

Extensions available:

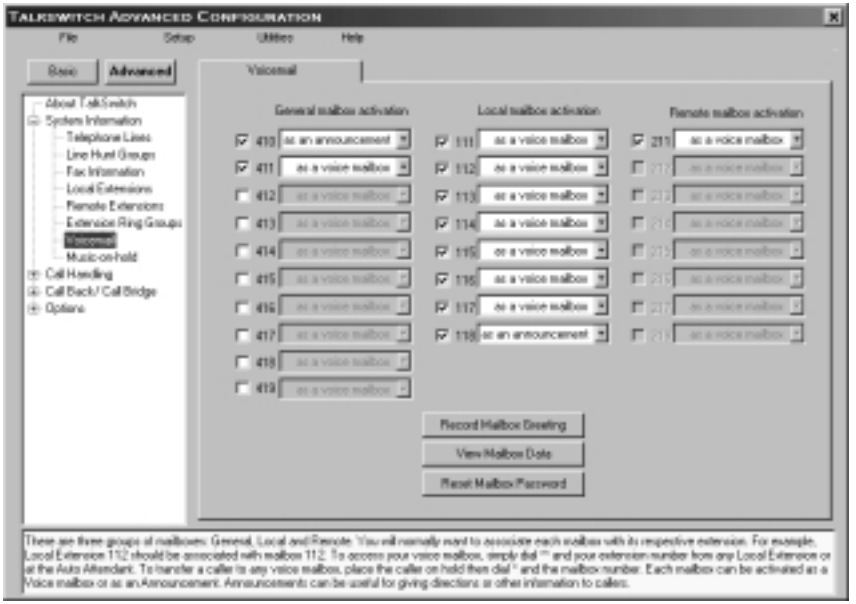
This is the list of available extensions from which the Extension Ring Group may be built. Only active extensions will be available to add to the Ring Group.

Extensions to ring:

This is the list of extensions that will ring when the Extension Ring Group is selected from the Auto Attendant or Local Extension. All extensions listed will ring simultaneously when this Ring Group is dialed from an extension or at the Auto Attendant.

2.3.1.7 Voicemail

This tab deals with the internal voicemail system included with TalkSwitch. It allows you to activate General, Local and Remote mailboxes and view mailbox status.



In the "General mailbox activation" section:

This section allows you to activate General mailboxes as either a mailbox or an announcement. All activated general mailboxes will be accessible from any extension's Call Cascade sequence.

In the "Local mailbox activation" section:

This section allows you to activate Local mailboxes as either a mailbox or an announcement. All activated mailboxes will be accessible from any extension's Call Cascade sequence.

In the "Remote mailbox activation" section:

This section allows you to activate Remote mailboxes as either a mailbox or an announcement. All activated mailboxes will be accessible from any extension's Call Cascade sequence.

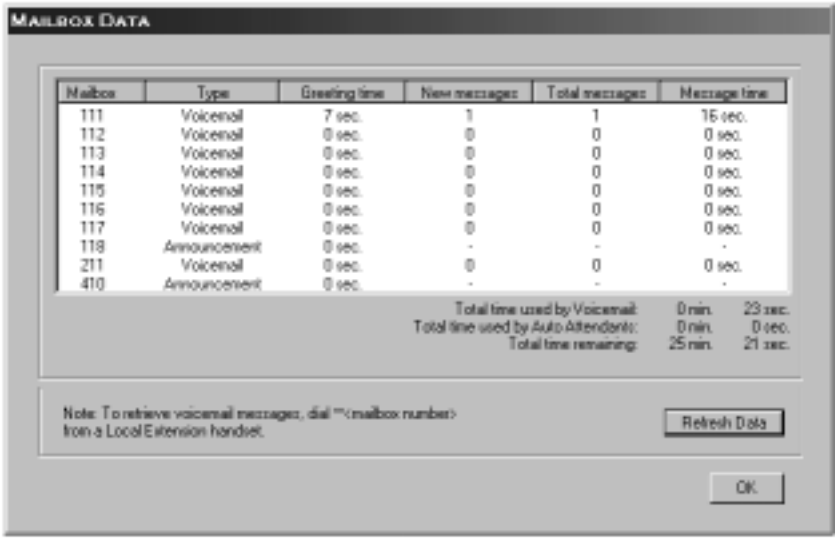
Record Mailbox Greeting:

Selecting this button brings up a dialog screen which displays instructions for recording mailbox greetings or announcements. Simply follow the instructions. By default, all mailboxes will use the standard greeting until you record a personal greeting.

RECORD MAILBOX GREETING
Instructions to record a mailbox greeting from an extension telephone.
Step 1
Pick up an extension handset and dial:
** mailbox number
Step 2
Select '2' to change your greeting options then follow the prompt instructions.
OK

View Mailbox Data:

Pressing this button brings up a dialog screen which displays memory usage of the internal voice mailboxes including greeting time, message time and number of messages.

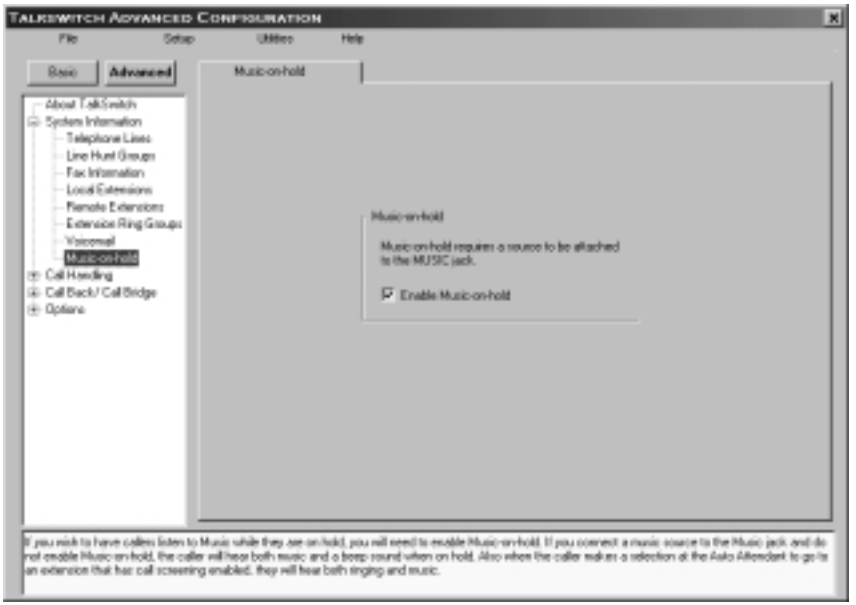

MAILBOX DATA
Mailbox | Type | Greeting time | New messages | Total messages | Message time
111 | Voicemail | 7 sec. | 1 | 1 | 16 sec.
112 | Voicemail | 0 sec. | 0 | 0 | 0 sec.
113 | Voicemail | 0 sec. | 0 | 0 | 0 sec.
114 | Voicemail | 0 sec. | 0 | 0 | 0 sec.
115 | Voicemail | 0 sec. | 0 | 0 | 0 sec.
116 | Voicemail | 0 sec. | 0 | 0 | 0 sec.
117 | Voicemail | 0 sec. | 0 | 0 | 0 sec.
118 | Announcement | 0 sec. | - | - | -
211 | Voicemail | 0 sec. | 0 | 0 | 0 sec.
410 | Announcement | 0 sec. | - | - | -
Total time used by Voicemail: 0 min. 23 sec.
Total time used by Auto Attendants: 0 min. 0 sec.
Total time remaining: 25 min. 21 sec.
Note: To retrieve voicemail messages, dial **<mailbox number> from a Local Extension handset.
Refresh Data
OK

Reset Mailbox Password:

Selecting this button brings up a dialog screen which allows you to reset the password for any mailbox. This may be useful if someone has forgotten their password or someone has left the company. If you want to reset a voice mailbox completely, use the Voicemail manager located under the Utilities menu.

2.3.1.8 Music-on-hold

If you wish to have callers listen to music or advertising while they are on hold, you will need to enable Music-on-hold in this tab.

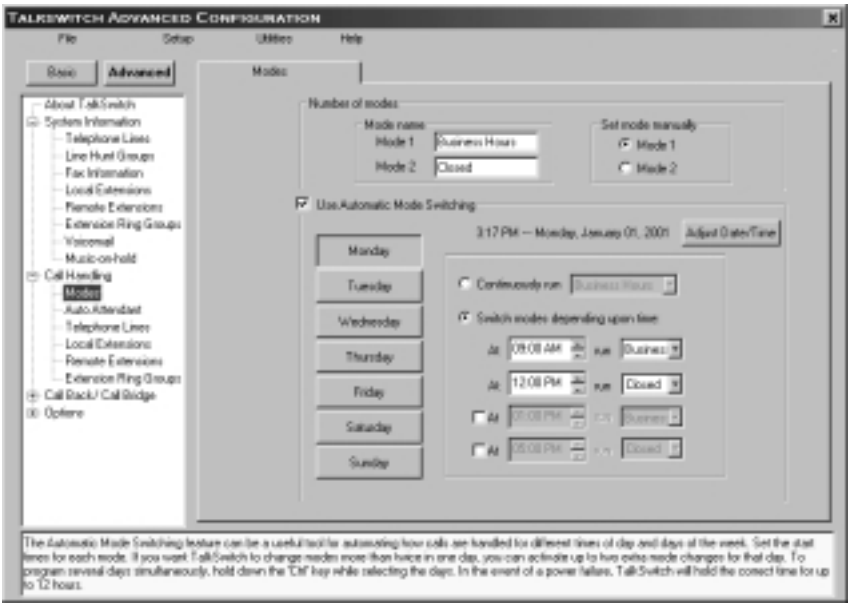


Note: If you connect a music source to the Music jack and do not enable Music-on-hold, the caller will hear both music and a beep sound when on hold. Also when the caller makes a selection at the Auto Attendant to go to an extension that has call screening enabled, they will hear both ringing and music.

2.3.2 Call Handling

2.3.2.1 Modes

The use of Modes allows you to run different call handling configurations at different times. For example, you may want calls handled one way during business hours and another way for non-business hours. Modes can be switched either manually or automatically with the use of Automatic Mode Switching.



Name the modes if desired. The labels will be displayed elsewhere in the configuration software whenever modes are used.

To use the Automatic Mode Switching feature, you must first activate it by clicking 'Use Automatic Mode Switching'. Next, set the start times for each mode. If you want TalkSwitch to change modes more than twice in one day, you can activate up to two extra mode changes for that day.

If you do not want to use Automatic Mode Switching, you can still switch modes manually in the software or through any telephone using touch tone commands. Enter command mode by dialing # then your password if required. Next, dial any of the following commands followed by # to confirm.

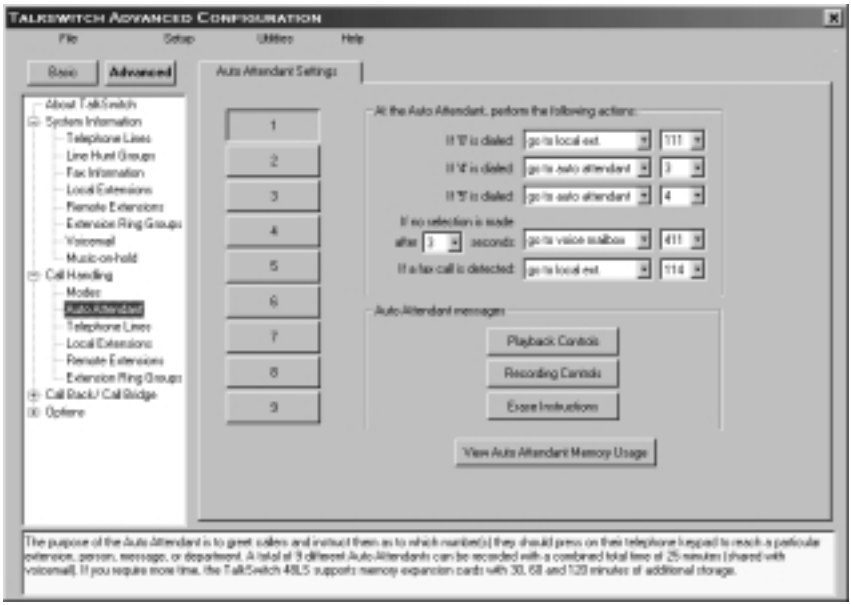
31	Changes TalkSwitch to mode 1
32	Changes TalkSwitch to mode 2
30	TalkSwitch tells you what mode it currently is using

2.3.2.2 Auto Attendant

The purpose of the Auto Attendant is to greet callers and instruct them as to which number(s) they should press on their telephone keypad to reach a particular extension, person, message, or department.

A total of 9 different Auto Attendants can be recorded with a combined total time of 25 minutes (shared with voicemail, but can be expanded on the TalkSwitch 48-LS using TalkSwitch Memory cards). You do not have to use or record all 9 Auto Attendants.

The Auto Attendants can be recorded from any Local Extension or remotely using touch tone commands.



Recording Auto Attendant messages using touch tone commands:

Pick up any Local Extension or dial into TalkSwitch and at the Auto Attendant enter command mode by pressing #. *If you have the Administrator password enabled, you need to enter this password.* Next, begin entering any of the following touch tone commands (these instructions are also available by pressing the 'Record Auto Attendant' button on the Auto Attendant tab. *After entering a command, you will need to press # to confirm the entry before entering another command or exiting command mode.* To exit command mode, press * or hang up.

Auto Attendant	Record message	Playback message	Erase message
1	41	51	041
2	42	52	042
3	43	53	043
4	44	54	044
5	45	55	045
6	46	56	046
7	47	57	047
8	48	58	048
9	49	59	049

Example: Recording and playing back Auto Attendant

1. Press # to enter command mode, then dial 4 1 #.
2. After the tone record your Auto Attendant message. Press # when you have finished.
3. Press 5 1 # to listen to your recording.

Note: If you have the Administrator password enabled, you will need to enter this password after you hit # the first time to enter command mode.

Recording Auto Attendants from an out-of-office phone:

1. Dial into TalkSwitch and wait for the Auto Attendant message.
2. Once the Auto Attendant is playing, use the same keypad commands as you would from a TalkSwitch extension (in the '*Recording Auto Attendants using touch tone commands:*' section). If you have Password Protection enabled, you will be prompted for your password.

In the "At the Auto Attendant, perform the following actions:" section:
For each Auto Attendant, you can configure how you want TalkSwitch to handle calls when a caller selects '0', '4', '5', makes 'no selection' or if a 'fax call is detected'.

If 0 is dialed:

If the caller presses '0' at the specified Auto Attendant, TalkSwitch can perform no action, or, route the call to any Local or Remote Extension, Ring Group, Voice mailbox, Auto Attendant, or Announcement.

If 4 is dialed:

If the caller presses '4' at the specified Auto Attendant, TalkSwitch can perform no action, or, route the call to any Local or Remote Extension, Ring Group, Voice mailbox, Auto Attendant, or Announcement.

If 5 is dialed:

If the caller presses '5' at the specified Auto Attendant, TalkSwitch can perform no action, or, route the call to any Local or Remote Extension, Ring Group, Voice mailbox, Auto Attendant, or Announcement.

If no selection is made:

If no selection is detected at the specified Auto Attendant, TalkSwitch can route the call to any Local or Remote Extension, Ring Group, Voice mailbox, Auto Attendant, Announcement or simply hang up. This feature is included in case someone does not have a touch-tone phone or it may be a fax call. It can also be used to forward calls immediately after the Auto Attendant answers the call. You will notice that you can specify the length of time after the Auto Attendant has finished playing before it performs the 'no selection' action.

If a fax call is detected:

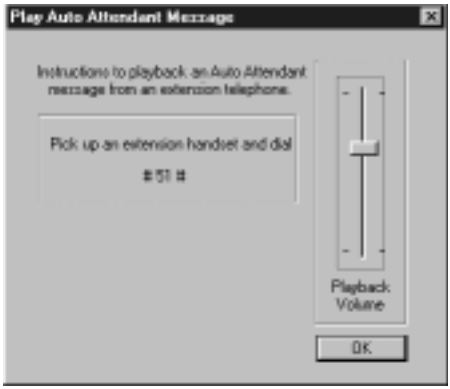
If TalkSwitch detects a fax call (by CNG detection), it has the ability to route it to a Local or Remote Extension or if you do not want to use fax detection, you can have TalkSwitch perform no action when detecting a fax call.

Fax calls are detected by what's called a CNG tone. If a fax machine sends this tone while trying to establish a connection to a fax machine connected to TalkSwitch, TalkSwitch will handle the call accordingly.

Auto Attendant Messages:

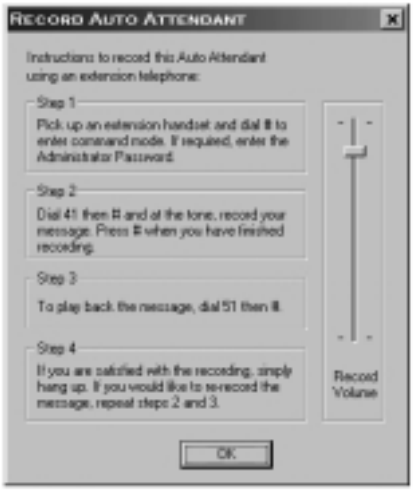
Play Instructions

Selecting this button displays a dialog box showing the instructions on how to listen to an Auto Attendant using a telephone and there is also a playback volume control. Adjust the volume to a comfortable level without distortion. If you hear clipping or distortion at any volume level, it may be that your Auto Attendant recording level was set too high when you recorded your Auto Attendant.


Play Auto Attendant Message
Instructions to playback an Auto Attendant message from an extension telephone.
Pick up an extension handset and dial
#51#
Playback Volume
OK

Record Instructions

Selecting this button displays a dialog box showing the instructions on how to record and playback an Auto Attendant using a telephone. There is also a record volume control. Adjust the volume to a comfortable level without distortion. If you hear clipping or distortion at any volume level, it may be that your Auto Attendant recording level was set too high when you recorded your Auto Attendant.


Record Auto Attendant
Instructions to record this Auto Attendant using an extension telephone:
Step 1
Pick up an extension handset and dial # to enter command mode. If required, enter the Administrator Password.
Step 2
Dial 41 then # and at the tone, record your message. Press # when you have finished recording.
Step 3
To play back the message, dial 51 then #.
Step 4
If you are satisfied with the recording, simply hang up. If you would like to re-record the message, repeat steps 2 and 3.
Record Volume
OK

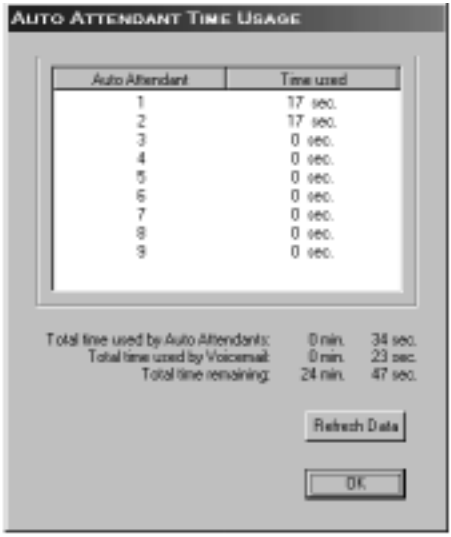
Erase Instructions

Selecting this button displays a dialog box showing the instructions on how to erase an Auto Attendant using a telephone. It is a good idea to erase any unused Auto Attendants since they share the same memory as voicemail.

Erase Auto Attendant Message
Instructions to erase this Auto Attendant message using an extension telephone:
Step 1
Pick up an extension handset and dial # to enter command mode. If required, enter the Administrator Password.
Step 2
Dial 041 then #.
OK

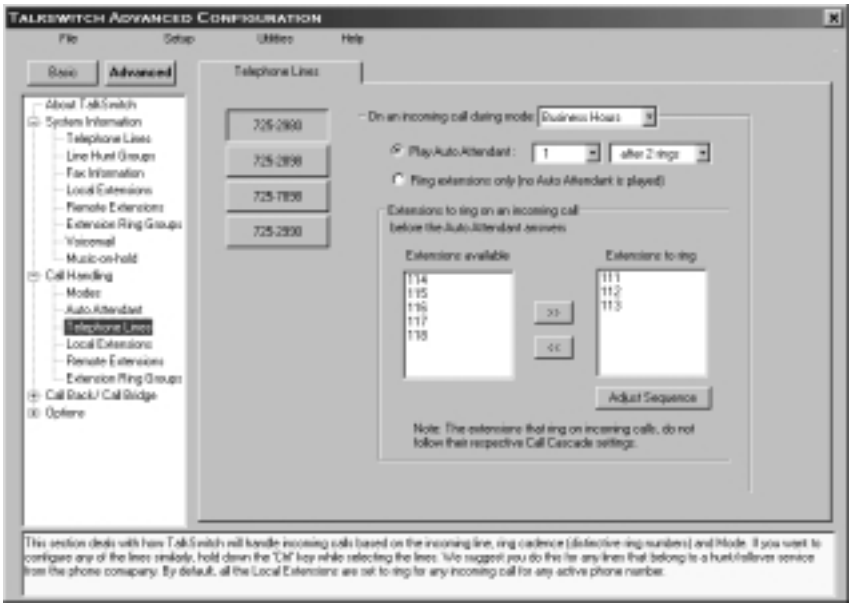
View Auto Attendant Memory Usage

Selecting this button displays the amount of time used by all the Auto Attendants. This feature helps you keep track of memory usage as you may have unused Auto Attendant messages that can be deleted to free up more memory.



2.3.2.3 Telephone Lines

This section deals with how TalkSwitch will handle incoming calls based on the incoming line and ring cadence (distinctive ring numbers).



First select a line to configure then the appropriate mode you want TalkSwitch to use these settings.

Play Auto Attendant:

If you wish to have the Auto Attendant answer calls to give callers options, select the appropriate Auto Attendant and number of rings before the Auto Attendant answers . The caller will always hear one more ring than the number of rings you select since TalkSwitch uses the first ring to determine the ring type and support Caller ID information.

Ring extensions only (no Auto Attendant is played):

If you don't want the Auto Attendant to answer calls on this line, then select this option. By default all the Local Extensions are set to ring immediately during an inbound call.

The next section controls how the extensions will ring before the Auto Attendant answers the call.

- If you have chosen the Auto Attendant to answer calls immediately, this section does not require configuration and will be greyed out.
- If the Auto Attendant is set to answer after 1 or more rings, then you can configure when
  specific extensions will ring before the Auto Attendant answers.
- If no Auto Attendant is chosen to answer on the specified line, then you can configure when specific extensions will ring (up to 9 rings).

Extensions to ring on incoming call (before Auto Attendant answers):

Select the Local Extensions you would like to ring before the Auto Attendant answers. By default, all activated Local Extensions will ring. If you require certain extensions to ring in a sequence, i.e. one extension rings first, then another on the 2nd ring, click the "Adjust Sequence" button to configure.

Adjust Sequence:

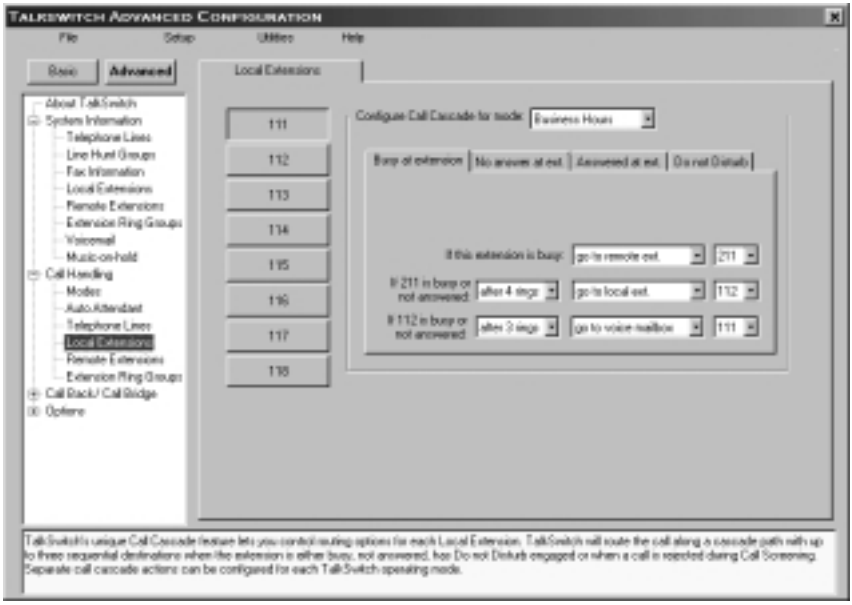
The next section controls how the extensions will ring before the Auto Attendant answers the call.

- If you have chosen the Auto Attendant to answer calls immediately, this section does not require configuration and will be greyed out.
- If the Auto Attendant is set to answer after 1 or more rings, you can then configure when specific extensions will ring before the Auto Attendant answers.
- If no Auto Attendant is chosen to answer on the specified line, then you can configure when specific extensions will ring up to 9 rings.

Note: The extensions that ring on incoming calls, do not follow their respective Call Cascade settings. The Call Cascade options only occur after a call has passed through an Auto Attendant.

2.3.2.4 Local Extensions

This section configures the incoming Call Cascade options for the Local Extensions. The Call Cascade routing options are only engaged if the extension is chosen from the Auto Attendant or if a call is manually transferred to the extension. Once a call enters an extension's Call Cascade sequence, the extension "owns" the call. It will not follow any other extension's options even if chosen in the Cascade sequence - what you see in an extension's Cascade sequence is exactly what you will get. You can set up the Call Cascade sequences differently for both scheduling modes (the scheduling for these modes are set up on the Modes tab).



For Local Extensions, there are 4 different 'Call Cascade' situations; Busy at extension, No answer at extension, Answer at extension(routing when a call is rejected) and Do not Disturb (when turned on at an extension). For each of these situations, you can control how and where you want the incoming call to the extension handled with up to 3 'cascade' destinations available.

1. Busy at extension - *routing options when this extension is busy*

   Cascade options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant, play busy tone (for example: used if a fax machine is at the extension), queue caller, or hang up. For more information on these features, see chapter 3.0 - Using TalkSwitch.

2. No answer at ext. - *routing options when this extension does not answer after a specified number of rings.*

   Cascade options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant or keep ringing.

3. Answer at ext. - *routing options when this extension 'rejects' a screened call.*

   Selecting 'play caller's name first' will prompt callers, when they choose this extension at the Auto Attendant, to record their name. When you answer the call at the extension, it will announce the caller (by playing their recording), at which time you can choose to accept the call by pressing # or reroute the call to the Cascade options on this tab by either hanging up

or pressing ✱. Routing options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant or hang up. In the case where 'hang up' is selected, TalkSwitch will first play the following prompt before hanging up: "I'm sorry, that extension is unavailable at this time. Please try again later."

4. Do not Disturb - *routing options when this extension has engaged the 'Do not Disturb' feature*

   The Do not Disturb feature is turned on (by dialing ✱61) or off (by dialing ✱60) from the extension's handset. Cascade options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant or hang up. When Do not Disturb is enabled, you will hear "Do not disturb on" before the dialtone as a reminder since no calls will ring through to your extension. You may still dial any digits during this prompt.

In the Cascade sequence, only choosing an extension (Local, Remote or Ring Group) will allow you to choose an option in the next line. Any other selection (Voicemail, Announcement, Auto Attendant, Queue, Busy signal, Keep ringing and Hang up) is considered an end-of-call option. Note as well that the last line in the Cascade sequence only allows the choice of an 'end-of-call' option. This is done so the chance of a caller being "looped" within the system is removed.

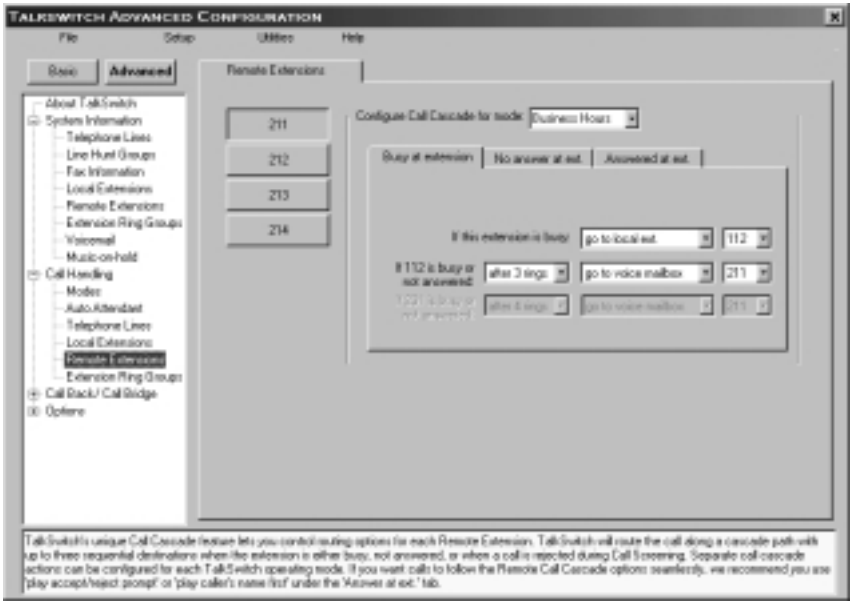
Adding selections to a Call Cascade that are not yet configured:

If while configuring the Cascade sequence you require a Local Extension, Remote Extension, Ring Group, Voice mailbox or Announcement that has not been activated as yet, (i.e. not displayed in the extension number drop-down list) you can easily add the required selection by choosing 'new'. If chosen, a screen will appear (depending upon which type is chosen). Simply fill in the required information to add the new option to the selectable list.

The information given in the 'Add new...' screens will be reflected within their respective sections. For example, if you add a new Remote Extension (let's say 211), when you go to the Remote Extensions section you will see that extension 211 has the information previously filled in the 'Add new Remote Extension' screen. You will also note that not all the information displayed in the extension tabs are available in the 'Add new...' screens. This is because only the information that effects the original extension's Call Cascade functionality is offered.

2.3.2.5 Remote Extensions

This section allows you to configure the incoming Call Cascade options for the Remote Extensions. The Call Cascade routing options are only engaged if the extension is chosen from the Auto Attendant or if a call is manually transferred to the extension. Once a call enters an extension's Call Cascade sequence, the extension "owns" the call. It will not follow any other extension's options even if chosen in the Call Cascade sequence - what you see in an extension's Call Cascade sequence is exactly what you will get. You can set up the Call Cascade sequences for both modes (the scheduling for these modes are set up in the Modes tab).



For Remote Extensions, there are 3 different 'Call Cascade' options. For each of these options, you can control how and where you want the incoming call to the extension handled with up to 3 'cascade' destinations available.

1. Busy at extension - *routing options when this extension is busy*

   Cascade options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant, play busy tone or hang up.

2. No answer at ext. - *routing options when this extension does not answer after a specified number of rings.*

   Cascade options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement or Auto Attendant, keep ringing or hang up.

3. Answer at ext. - *routing options when this extension 'rejects' a call.*

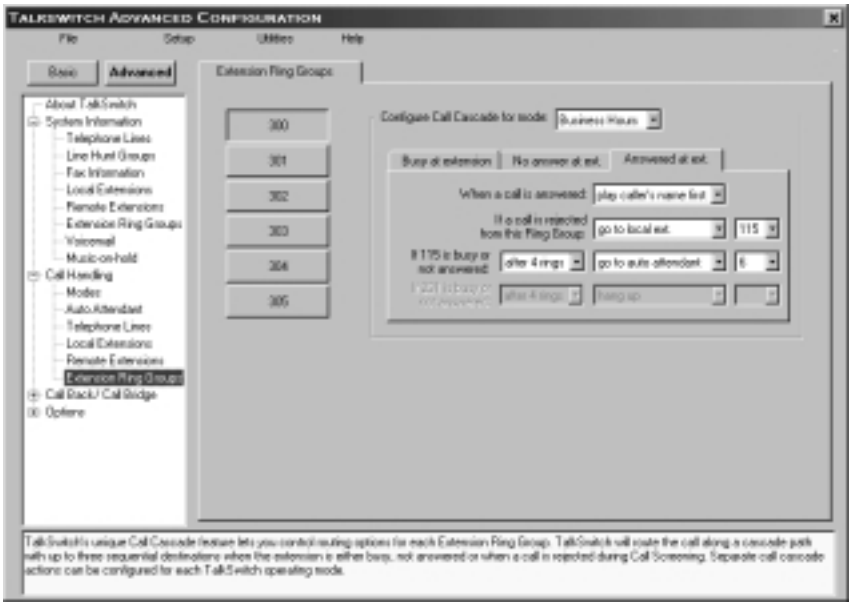
   With Remote Extensions you have the choice between two different Call Screening methods, 'play accept/reject prompt' and 'play caller's name first'. Selecting 'play accept/reject prompt' will prompt the Remote Extension when answered by stating "This is call forward". Selecting 'play caller's name first' will prompt callers to record their name. When you answer the call at the extension, it will announce the caller (by playing their recording). After hearing either message, the Remote Extension can choose to accept the call by pressing # or reroute the call to the Call Cascade options on this tab by either hanging up or pressing *. Routing options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant or hang up.

   If you select 'stay connected' you will notice that the Call Cascade options are greyed out. TalkSwitch can only control forwarded calls when prompting is enabled. Also, if you use one of the prompted methods for this Remote Extension, have Music-on-hold enabled, and are not using 3-way calling to forward calls to this Remote Extension, the Call Cascade will be seamless to the caller as they will only hear music throughout the entire process of trying to locate you.

If a call is forwarded to a Remote Extension from a Call Cascade sequence and has either 'play caller's name first' or 'play accept/reject prompt' enabled, the person will hear "This is Call Cascade…" instead of "This is Call Forward…". This is done so that you know when the call is rejected, it will send the caller to the next Call Cascade option of the extension that forwarded the call and not follow the Remote Extension's 'Answer at ext.' Call Cascade options.

2.3.2.6 Extension Ring Groups

The following section configures the incoming call routing options for Ring Groups. The Call Cascade routing options are only engaged if the Ring Group had been chosen from the Auto Attendant or if a call had been manually transferred to the Ring Group. Once a call enters a Ring Group's Call Cascade sequence, the Ring Group "owns" the call. It will not follow any other extensions options even if chosen in the Call Cascade sequence - what you see in a Ring Group's Call Cascade sequence is exactly what you'll get.



For Ring Groups, there are 3 different Call Cascade options. For each of these options, you can control how and where you want the incoming call handled with up to 3 'cascade' destinations available. You can set up the Call Cascade sequences for both Modes (the scheduling for these modes are set up on the Modes tab).

1. Busy at extension - *routing options when all the extensions in the Ring Group are busy*

   Cascade options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant, play busy tone or hang up.

2. No answer at ext. - *routing options when all the extensions in the Ring Group do not answer after a specified number of rings.*

   Cascade options include forwarding calls to a Local Extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant, keep ringing or hang up.

3. Answer at ext. - *routing options when any of the extensions in the Ring Group 'rejects' a screened call.*

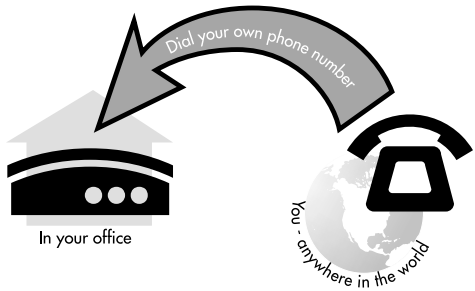
   Selecting 'play caller's name first' will prompt callers (when they choose this Ring Group at the Auto Attendant) to record their name. When you answer the call at a Ring Group extension, it will announce the caller (by playing their recording), at which time you can choose to accept the call by pressing # or reroute the call to the Cascade options on this tab by either hanging up or pressing *. Routing options include forwarding calls to a Local extension, Remote Extension, Extension Ring Group, built in Voicemail, Announcement, Auto Attendant or hang up.

2.3.3 Call Back / Call Bridge

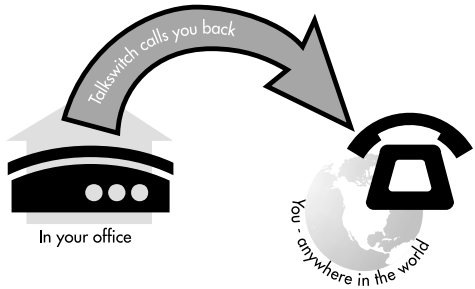
Working together, Call Back and Call Bridge act as your personal long distance operator. Whether you are across town or around the world, you can place calls from your home/office telephone line(s) accessing your long distance savings plan. Call Bridge allows you to place calls from your office telephone lines when you are not in the office. You can make a direct call to TalkSwitch, activate Call Bridge and enter the telephone number you want to dial. TalkSwitch dials the number from your home/office telephone lines and connects the two calls together (the call you made to TalkSwitch and the call TalkSwitch made from your home/office to the dialed party).

Here is how it works:

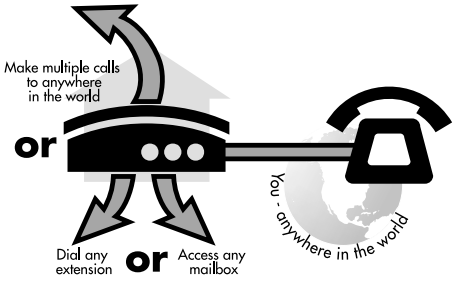
Step 1: Call your TalkSwitch telephone number to activate Call Back. Hang up.



Step 2: TalkSwitch calls you back within 10 seconds. You answer and accept Call Back. Your Auto Attendant will play or if you have none recorded, the TalkSwitch message will play.



Step 3: You can now access any TalkSwitch extension, voice mailbox or use Call Bridge to make calls around the globe just as if you were sitting in your own office.



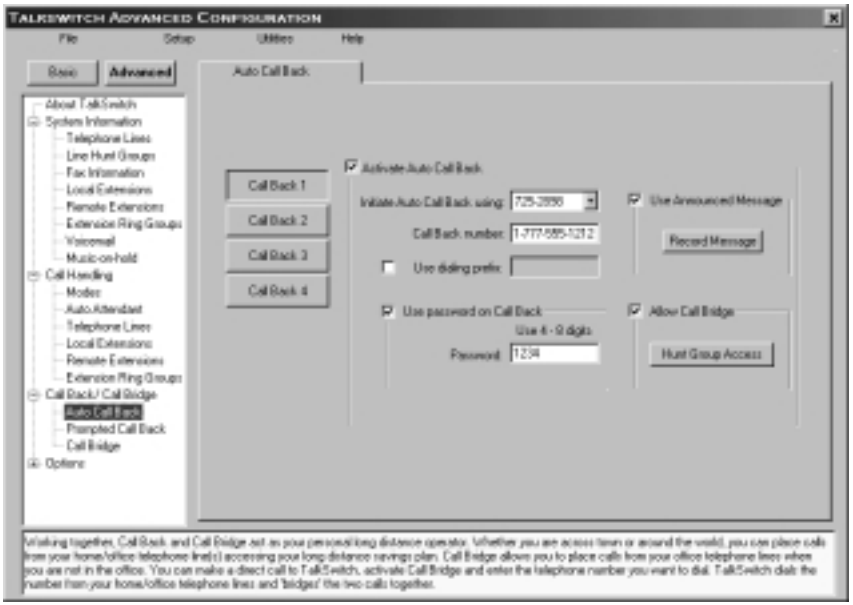
There are two ways to activate Call Back:

1. *Auto Call Back* - Auto Call Back is immediate and eliminates the initial long distance call charge required to activate Call Back. When using Auto Call Back, all the Call Back settings must be pre-configured before Call Back is activated. To use Auto Call Back activation, simply dial your home/office telephone number, let the call ring twice and then hang up. Call Back is instantly activated!

2. *Prompted Call Back* - Prompted Call Back offers the convenience of entering or changing your Call Back telephone number and message each time Call Back is activated. To use Prompted Call Back activation, simply dial your home/office telephone number. When the Auto Attendant answers your call, you dial '6' to access the Call Back settings through a series of prompts which allow you to:
    a) Enter the telephone number where you would like TalkSwitch to call you.
    b) Record an 'Announced' message if required. Call Back will be activated right after you initiate Prompted Call Back and hang up. It is important to remember that a small initial long distance charge will be incurred at your current location when activating Prompted Call Back.

2.3.3.1 Auto Call Back

There are 4 Auto Call Back numbers that can be configured. Choose an Auto Call Back to configure and then activate it.



Initiate Call Back using:

Select the line/phone number when out of the office that you will be dialing to activate the Call Back. TalkSwitch will initiate the Call Back using the same line you initially called. You can also configure this Call Back by dialing into this phone number only.

Call Back number:

Enter the Call Back number. This phone number should be entered exactly as you would normally have to dial the number from this line (i.e. do not enter a Line Hunt Group in the dialing string).

Use dialing prefix:

If you usually have to dial the same prefix when using Auto Call Back (for example a long distance calling card number), you may want to enable 'Use dialing prefix with Call Back number'. Enter the dialing prefix including any required pauses or feature keys such as * or #. The corresponding key for inserting a 2-second pause is the comma. For example, if you want to disable Call Waiting and want to dial a long distance prefix before dialing the long distance number you could enter the following:

*70,1010555,, This corresponds to *70 for disabling the Call Waiting feature, a 2 second pause to wait for the new dialtone,

then 1010555 for the long distance prefix, and a 4 second pause to wait for the new dialtone before dialing the actual long distance phone number.

In essence this saves you the hassle of having to always enter the same prefix every time you want to set up an Auto Call Back phone number.

Use Password on Call Back:

This option is designed to give you security and to restrict who can use this particular Call Back number. Simply fill in a 4 to 8 digit password for the Call Back. When TalkSwitch calls you back, you will be prompted to input the password to accept Call Back to access Call Bridge or any TalkSwitch extension.

Use Announced Message:

This option is recommended if the number TalkSwitch will be calling back corresponds to a hotel or a location where somebody else will be answering the call. The Announced Message option allows you to record a message that will be played when the call is initially answered during a Call Back. For example, you may want to say "Please transfer this call to Bob in room 307". When the hotel receptionist gets the Call Back and hears this message, they will know to transfer the call to your room.

The Announced Message can be recorded using an extension handset or remotely when you access Call Back from the Auto Attendant. The Record message button gives the instructions to record the message. They are as follows:

Pick up a telephone handset connected to the TalkSwitch and use the following keypad commands to record the specific Auto Call Back Announced Message:

1) Press # to enter command mode. If required, enter the password.
2) Next, enter the appropriate command as listed below. After each command, press # to confirm the entry.

Auto Call Back	Recording	Playback
1	61	71
2	62	72
3	63	73
4	64	74

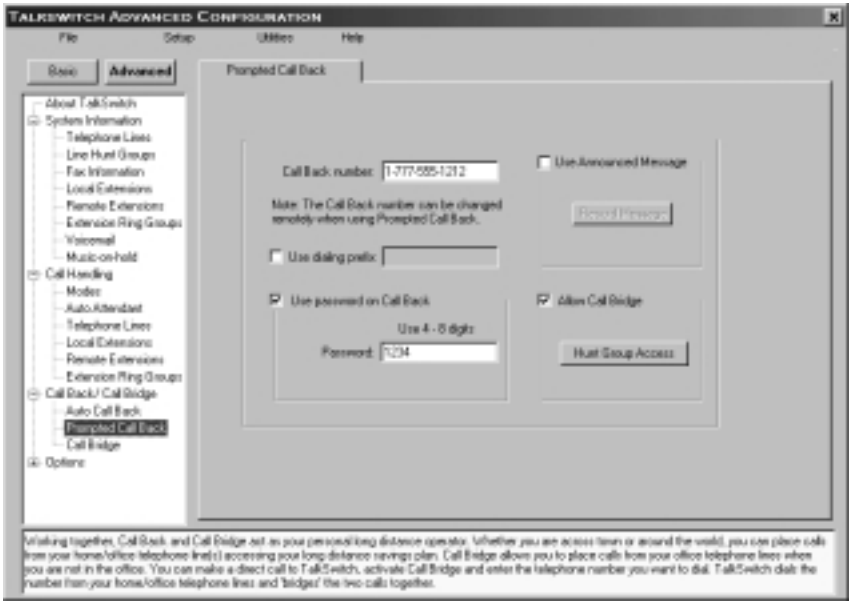
If you need to configure and/or record an Announced Message from a remote location and do not have the Auto Attendant set to answer this Call Back line, you can call your Call Back number and let it ring 15 times. A generic Auto Attendant will answer and you will can configure Call Back by pressing 6.

Allow Call Bridge:

To allow Call Bridge after a Call Back has been accepted, check the Allow Call Bridge box. You may also restrict the Hunt Group access using Call Bridge from this Call Back by choosing the Hunt Group Access button. By default, Call Bridge is enabled when Call Back is activated. You will not be prompted for another password when you choose a Hunt Group at the Auto Attendant.

When entering a Call Back phone number using a telephone, you can enter special characters using a special prefix. The default prefix is the * key. To enter a * in a dialing string you will need to dial **, for a 2 second pause dial *0, and for a #, dial *#. When you have completed the entire dial string you need to dial #.

2.3.3.2 Prompted Call Back



Call Back number.

This phone number should be entered exactly as you would normally have to dial the number from this line (do not enter a Line Hunt Group in the dialing string). TalkSwitch will Call Back out on the same line the call originated.

When you access Prompted Call Back from out of the office, you may change this number before activating. This is the benefit of Prompted Call Back - you do not need to preset the number before you leave the office.

Use dialing prefix with Call Back number:

If you usually have to dial the same prefix when using Prompted Call Back (for example a long distance calling card number), you may want to enable 'Use dialing prefix with Call Back number'. Enter the dialing prefix including any required pauses or feature keys such as * or #. The corresponding key for inserting a 2-second pause is the comma. For example, if you want to disable Call Waiting and want to dial a long distance prefix before dialing the long distance number you could enter the following:

*70,1010555,, This corresponds to *70 for disabling the Call Waiting feature, a 2 second pause to wait for the new dialtone, then 1010555 for the long distance prefix, and a 4 second pause to wait for the new dialtone before dialing the actual long distance phone number.

In essence this saves you the hassle of having to always enter the same prefix every time you want to set up a Prompted Call Back phone number.

Use password on Call Back:

This option is designed to give you security and to restrict who can use Prompted Call Back. Simply fill in a 4 to 8 digit password and when TalkSwitch calls you back, you will be prompted to input the password to accept Call Back to access Call Bridge or any TalkSwitch extension.

Use Announced message:

As with described in the Auto Call Back section, this option is recommended if the number TalkSwitch will be calling back corresponds to a hotel or a location where somebody else will be answering the call. The Announced message option allows you to record a message that will be played when the call is initially answered during a Call Back. For example, you may want to say "Please transfer this call to Bob in room 307". When the hotel receptionist gets the call and hears this message, they will know to transfer the call to Bob's room.

The Announced Message can be recorded using an extension handset or remotely when you access Call Back from the Auto Attendant. The Record message button gives the instructions to record the message. They are as follows:

Pick up a telephone handset connected to the TalkSwitch and use the following keypad commands to record the Prompted Call Back Announced Message:

1) Press # to enter command mode. If required, enter the password.
2) Next, enter the appropriate command as listed below. After each command, press # to confirm the entry.

To record message: 65

To playback message: 75

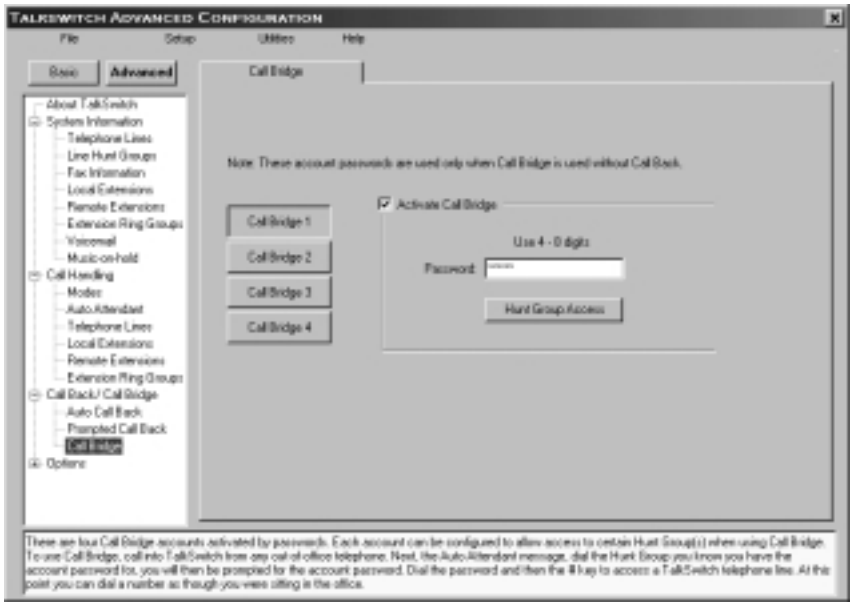
Allow Call Bridge:

To allow Call Bridge after a Call Back has been accepted, check the Allow Call Bridge box. You may also restrict the Hunt Group access using Call Bridge from this Call Back by choosing the Hunt Group Access button.

The call back number shown will always be the last number TalkSwitch dialed in the last Prompted Call Back session.

When entering a Call Back phone number using a telephone, you can enter special characters using a special prefix. The default prefix is the * key. To enter a * in a dialing string you will need to dial **, for a 2 second pause dial *0, and for a #, dial *#. When you have completed the entire dial string you need to dial #.

2.3.3.3 Call Bridge


TalkSwitch Advanced Configuration
File
Setup
Utilities
Help
Basic
Advanced
Call Bridge
About TalkSwitch
System Information
Telephone Lines
Line Hunt Groups
Fax Information
Local Extensions
Remote Extensions
Extension Ring Groups
Voicemail
Music on hold
Call Handling
Modes
Auto Attendant
Telephone Lines
Local Extensions
Remote Extensions
Extension Ring Groups
Call Back / Call Bridge
Auto Call Back
Prompted Call Back
Call Bridge
Options
Note: These account passwords are used only when Call Bridge is used without Call Back.
Activate Call Bridge
Call Bridge 1
Call Bridge 2
Call Bridge 3
Call Bridge 4
Use 4 - 8 digits
Password:
Hunt Group Access
There are four Call Bridge accounts activated by passwords. Each account can be configured to allow access to certain Hunt Group(s) when using Call Bridge. To use Call Bridge, call into TalkSwitch from any out-of-office telephone. Next, the Auto Attendant message, dial the Hunt Group you know you have the account password for, you will then be prompted for the account password. Dial the password and then the # key to access a TalkSwitch telephone line. At this point you can dial a number as though you were sitting in the office.

How to use Call Bridge:

1. Call into TalkSwitch from any out-of-office telephone.
2. At the Auto Attendant message, dial the Hunt Group you know you have the account password for, (let's say it's 9 - the default) you will then be prompted for the account password.
3. You dial the password and then the # key to access a TalkSwitch telephone line.
4. At this point you can dial a number as though you were sitting in the office.

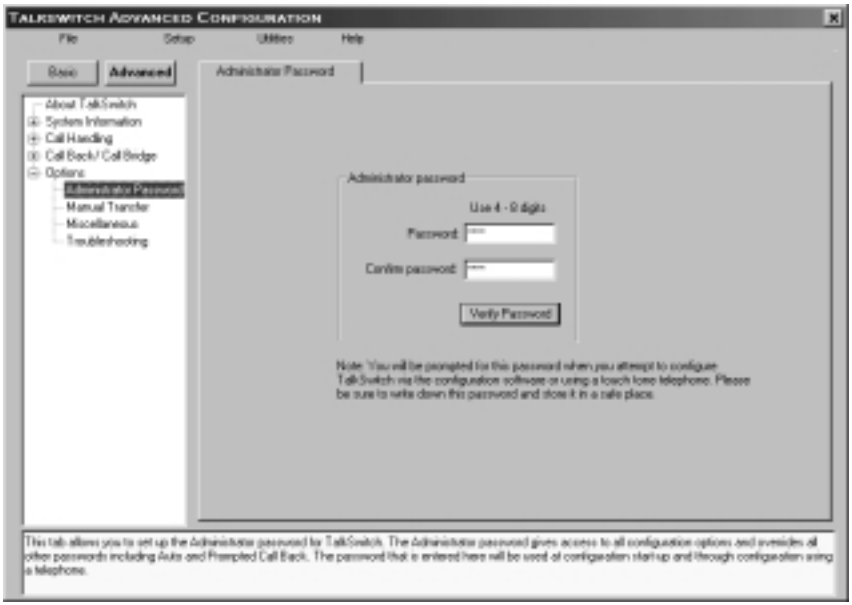
There are four Call Bridge accounts activated by passwords. Each account can be configured to allow access to certain Hunt Group(s) when using Call Bridge. To activate an account, check the 'Activate Call Bridge' box and fill in a 4 to 8 digit password. Next, select 'Hunt Group Access' and assign the Hunt Groups you want to make available for this account.

Call Bridge account passwords are only valid when using Call Bridge by itself, not when used in conjunction with Call Back.

2.3.4 Options

2.3.4.1 Administrator Password

This tab allows you to set up the Administrator password for TalkSwitch. The Administrator password gives access to all configuration options. The password that is entered here will be used at configuration start-up and through DTMF configuration.


TalkSwitch Advanced Configuration
File
Setup
Utilities
Help
Basic
Advanced
Administrator Password
About TalkSwitch
System Information
Call Handling
Call Back / Call Bridge
Options
Administrator Password
Manual Transfer
Miscellaneous
Troubleshooting
Administrator password
Use 4 - 8 digits
Password:
Confirm password:
Verify Password
Note: You will be prompted for this password when you attempt to configure TalkSwitch via the configuration software or using a touch tone telephone. Please be sure to write down this password and store it in a safe place.
This tab allows you to set up the Administrator password for TalkSwitch. The Administrator password gives access to all configuration options and overrides all other passwords including Auto and Prompted Call Back. The password that is entered here will be used at configuration start-up and through configuration using a telephone.

Administrator password:

To activate the use of an administrator password, enter a 4 to 8 digit password and then confirm the password. Next, click the 'Verify Password' button to have the software validate the password.

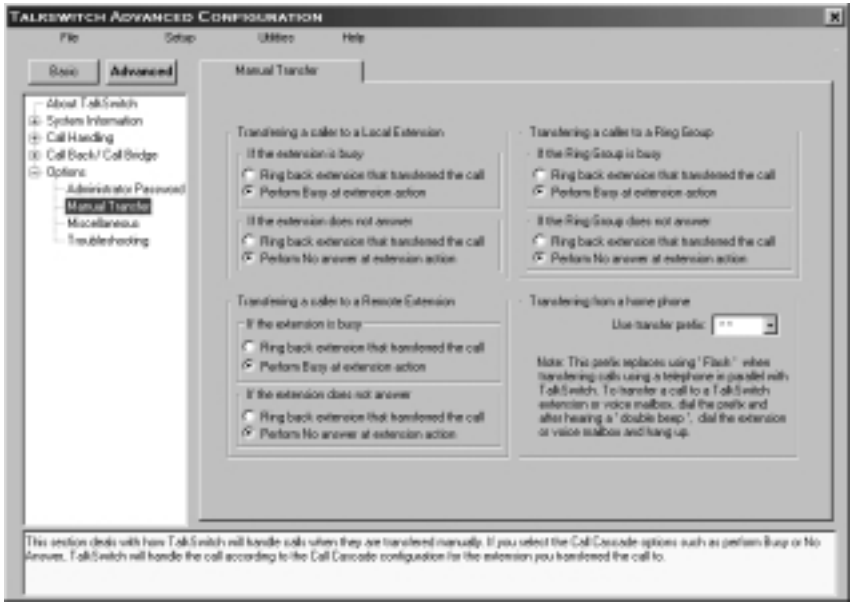
If there is a problem with the password, you will need to re-enter the password and then confirm it. If you do not want a password or want to delete the

existing password, simply clear the password field and click 'Verify Password'. TalkSwitch will no longer require a password for configuration.

If the administrator forgets their password, the only option to gain access to the configuration settings is to contact Centrepoint Technologies.

2.3.4.2 Manual Transfer

This section deals with actions TalkSwitch makes when calls are transferred manually.


TalkSwitch Advanced Configuration
File
Setup
Utilities
Help
Basic
Advanced
Manual Transfer
About TalkSwitch
System Information
Call Handling
Call Back / Call Bridge
Options
Administrator Password
Manual Transfer
Miscellaneous
Troubleshooting
Transferring a caller to a Local Extension
If the extension is busy
Ring back extension that transferred the call
Perform Busy at extension action
If the extension does not answer
Ring back extension that transferred the call
Perform No answer at extension action
Transferring a caller to a Ring Group
If the Ring Group is busy
Ring back extension that transferred the call
Perform Busy at extension action
If the Ring Group does not answer
Ring back extension that transferred the call
Perform No answer at extension action
Transferring a caller to a Remote Extension
If the extension is busy
Ring back extension that transferred the call
Perform Busy at extension action
If the extension does not answer
Ring back extension that transferred the call
Perform No answer at extension action
Transferring from a home phone
Use transfer prefix:
This section deals with how TalkSwitch will handle calls when they are transferred manually. If you select the Call Cascade options such as perform Busy or No Answer, TalkSwitch will handle the call according to the Call Cascade configuration for the extension you transferred the call to.

Transferring a caller to a Local Extension:

When performing this action, in the case of the extension not answering or being busy, you have the choice of TalkSwitch either ringing back the extension who transferred the call or performing the "no answer" or "busy" action of the extension who the call was intended for.

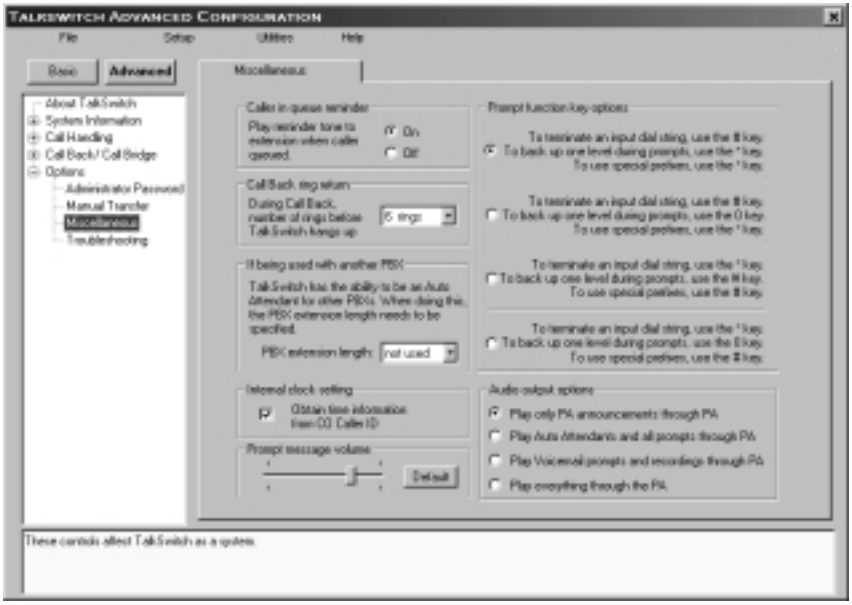
You also have the choice to adjust this setting for both the Remote Extensions and Extension Ring Groups.

Transferring from a Home phone:

You can transfer a call from a phone connected in parallel to one of the incoming TalkSwitch lines (Home phone) to a Local or Remote Extension, Extension Ring Group, an Announcement, or a Voice mailbox. This section allows you to choose which transfer prefix you would like to use to perform the action. The transfer prefix 'wakes up' TalkSwitch and can be considered the equivalent of the Flash or Link action at a Local Extension. By default the prefix is ✱✱.

Example: Let's say you receive a call on a phone in your home that is not an extension of TalkSwitch and you want to transfer the caller to Remote Extension 215. You would then dial ✱✱, wait for the 'double beep' then dial 215 and hang up. TalkSwitch will now handle the call.

2.3.4.3 Miscellaneous


TalkSwitch Advanced Configuration
File
Setup
Utilities
Help
Basic
Advanced
Miscellaneous
About TalkSwitch
System Information
Call Handling
Call Back / Call Bridge
Options
Administrator Password
Manual Transfer
Miscellaneous
Troubleshooting
Caller in queue reminder
Play reminder tone to extension when caller queued.
On
Off
Call Back ring return
During Call Back, number of rings before TalkSwitch hangs up:
5 rings
If being used with another PBX
TalkSwitch has the ability to be an Auto Attendant for other PBXs. When doing this, the PBX extension length needs to be specified.
PBX extension length:
not used
Internal clock setting
Obtain time information from CO Caller ID
Prompt message volume
Default
Prompt function key options
To terminate an input dial string, use the # key.
To back up one level during prompts, use the * key.
To use special prefixes, use the * key.
To terminate an input dial string, use the # key.
To back up one level during prompts, use the 0 key.
To use special prefixes, use the * key.
To terminate an input dial string, use the * key.
To back up one level during prompts, use the # key.
To use special prefixes, use the # key.
To terminate an input dial string, use the * key.
To back up one level during prompts, use the 0 key.
To use special prefixes, use the # key.
Audio output options
Play only PA announcements through PA
Play Auto Attendants and all prompts through PA
Play Voicemail prompts and recordings through PA
Play everything through the PA
These controls affect TalkSwitch as a system.

All of the following options affect TalkSwitch as a system. Adjust them according to your needs.

Caller in queue reminder

When a caller is in queue at an extension which is off-hook, a reminder tone is played at the extension to let them know they have a caller in their queue. This option allows you to turn off this function.

Call Back ring return

You can adjust the number of rings during a Call Back session before TalkSwitch disengages the Call Back (i.e. hangs up). Depending upon the situation you may want to give yourself more time to pick up and accept the Call Back by increasing the number of rings.

If being used with another PBX

This feature can only work with PBXs that use "flash-hook" as its transfer method. Please contact your PBX manufacturer for transfer details.

PBX extension length:

If TalkSwitch is being used as an Auto Attendant with another PBX, you can set the number of digits the PBX uses for its extensions. This allows TalkSwitch to know what digits to pass on to the PBX to complete the transfer.

Setting up TalkSwitch behind an existing PBX:

1. Connect the PBX extension to one of TalkSwitch's Line jacks. You may do this with all your TalkSwitch lines (1 PBX extension per line) depending upon how many Auto Attendant ports you would like on the PBX.
2. Configure your PBX on incoming calls to ring the extensions you have allocated to the TalkSwitch Lines.
3. Configure TalkSwitch's Auto Attendants to answer at which ring (answer immediately is used most commonly).
4. Record your Auto Attendants. The Auto Attendants should indicate that the digit '7' with the PBX extension should be dialed.

For example: If you have chosen the PBX extension length to be 3 digits (and let's say John Doe's extension is 111 on the PBX), the Auto Attendant should say "To speak with John Doe, press 7111...". Now when 7111 is dialed, TalkSwitch puts the caller on hold and transfers the caller to extension 111.

Internal clock setting:

TalkSwitch can obtain time information from Caller ID for it's internal clock. If you have indicated that you do have Caller ID on any of the lines, this option defaults to the active position. If it is de-activated, TalkSwitch can obtain it's time information from the time and date set in the 'Mode' tab under Automatic Mode Switching. TalkSwitch's clock information is used for Automatic Mode Scheduling and for internal Caller ID information when intercom calls are placed in the office.

Prompt function key options:

Some phone cards and phone services use different keypad digits for some of their features. Four options are given to allow flexibility with other systems. If required, choose an option that best suits working with your phone card or phone service. You can use these prefixes for entering phone numbers when calling into TalkSwitch and using Call Back and Call Bridge using 3-way calling.

The following describes how to input special prefixes depending upon which key is used.

When using the * key:	When using the # key:
** = *	#* = *
* 0 = 2 second pause	# 0 = 2 second pause
* 1 = Wait for dial tone	# 1 = Wait for dial tone
* # = #	# # = #

Example: You want to change the Prompted Call Back phone number remotely and the special prefix key is the * key. After you dial into TalkSwitch and press '6' for Call Back, you go into the options for Prompted Call Back and select to change the phone number. When prompted to enter the phone number, you enter:

**70*018005551212#

This tells TalkSwitch that you want it to dial:

*70 (2 second pause) 1-800-555-1212

Prompt message volume:

If needed, adjust the internal TalkSwitch prompt message volume with the slider control provided.

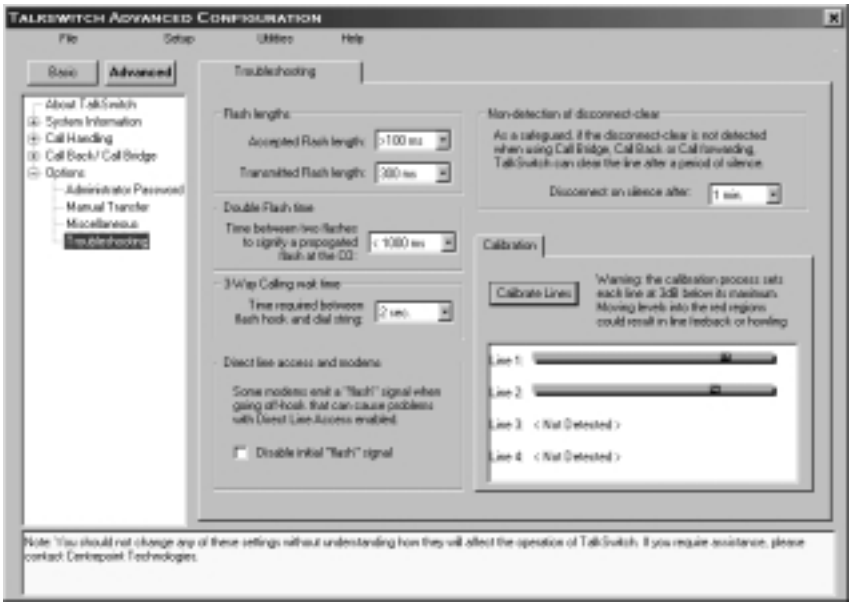
Audio output options:

The following controls can be used for various reasons including demonstrating TalkSwitch and screening callers using Voicemail. By default the system is set to play only PA announcements through the PA output when * 0 is dialed at a Local Extension.

If you are a single person operation and would like to screen all voicemail messages being left on TalkSwitch, you can connect a speaker to the PA output and select 'Play Voicemail prompts and recordings through PA'. When a caller goes to voicemail, you will hear your greeting and the caller leaving a message. If you wish to interrupt and speak to the caller, dial * 9 from any Local Extension.

2.3.4.4 Troubleshooting

The following controls should not be changed unless you are familiar with the effect they will have on TalkSwitch's operation. If your system does not appear to be functioning properly, please contact Centrepoint Technologies for assistance.


TALKSWITCH ADVANCED CONFIGURATION
File
Setup
Utilities
Help
Basic
Advanced
Troubleshooting
About TalkSwitch
System Information
Call Handling
Call Back / Call Bridge
Options
Administrator Password
Manual Transfer
Miscellaneous
Troubleshooting
Flash lengths
Accepted flash length:
>100 ms
Transmitted flash length:
300 ms
Non-detection of disconnect-clear
As a safeguard, if the disconnect-clear is not detected when using Call Bridge, Call Back or Call forwarding, TalkSwitch can clear the line after a period of silence.
Disconnect on silence after:
1 min.
Double Flash time
Time between two flashes to signify a propagated flash at the CO:
< 1000 ms
Calibration
3-Way Calling wait time
Time required between flash hook and dial string:
2 sec.
Calibrate Lines
Warning: the calibration process sets each line at 3dB below its maximum. Moving levels into the red regions could result in line feedback or howling.
Direct line access and modems
Some modems emit a "flash" signal when going off-hook that can cause problems with Direct Line Access enabled.
Disable initial "flash" signal
Line 1:
Line 2:
Line 3: < Not Detected >
Line 4: < Not Detected >
Note: You should not change any of these settings without understanding how they will affect the operation of TalkSwitch. If you require assistance, please contact Centrepoint Technologies.

Flash Lengths

Accepted Flash Length:

This option controls the allowable Flash length from a Local Extension that TalkSwitch will consider to be an intentional Flash. The value can be adjusted from greater than 50 ms to greater than 900 ms but less than 1 second. The default setting is 300 ms.

Transmitted Flash Length:

This option controls the transmitted Flash length from TalkSwitch to the Telephone Company lines. TalkSwitch emits a Flash when forwarding or bridging calls using the 3-Way Calling/Conference or Centrex Transfer service, or when transferring calls through an existing PBX system. The value can be adjusted from 50 ms to 900 ms. The default setting is 300 ms.

Double Flash time:

When two flashes are detected, TalkSwitch needs to calculate the time between the flashes to establish if they were intended to propagate a flash at the CO or if it was the intention to place a caller on hold then quickly retrieve them. The

Double Flash time values signify the maximum time between two flashes that TalkSwitch will recognize as an intended flash to the CO. When two flashes are detected with a time gap larger than the value displayed, no flash will be propagated at the CO. The value can be adjusted from 200ms to 2000ms with the default set at 1000ms.

3-Way Calling wait time:

This option adjusts the time required between flash hook and a dial string. Some telephone company 3-Way Calling/Conference services require different time allowances after the flash signal to re-establish dial tone.

Direct line access and modems:

Some modems emit a flash signal when going off hook. If this occurs in unison with direct line access, the modem can potentially put the outside line "on-hold" when going off-hook. By activating this option, TalkSwitch captures and ignores the first flash signal thus avoiding potential problems.

Non-detection of disconnect-clear:

This option controls the length of time when TalkSwitch will "drop" a line when silence is heard. This safeguard is very useful when a telephone line does not send out the disconnect-clear signal that tells TalkSwitch the call is finished.

Calibration:

Once lines are calibrated, the settings for each calibrated line is shown. If you are experiencing problems with feedback, echoing or low volume levels when bridging calls across 2 lines, you can individually adjust the amplification of each line signal.

Note: Moving the slider into the red region may cause feedback when bridging calls over 2 lines.

---

3 Using TalkSwitch

3.1 In the Office - Receiving Calls with the Auto Attendant

The Auto Attendant functions automatically. Once it has been configured and its messages have been recorded, that's it! The Auto Attendant takes care of the rest. It will follow whatever instructions (configuration) it was given.

If you subscribe to Caller ID service, you may want to set the Auto Attendant to answer after at least 1 ring to give TalkSwitch a chance to capture the Caller ID information.

3.2 In the Office - Making and Receiving Calls

3.2.1 Making calls from a Local Extension

Placing Intercom calls from one Local Extension to another Local Extension, Remote Extension or Extension Ring Group:

You can place intercom calls from one Local Extension to another Local Extension, Remote Extension or Extension Ring Group by simply picking up the extension's handset and dialing the number of the extension with which you wish to intercom. An Intercom call can be identified by a unique ring cadence (2 short rings) except in the case of a Remote Extension Intercom call where the phone will ring as usual or if a Ring Group has selected a different ring cadence other than 'normal'.

Placing 'out-of-office' calls from a Local Extension:

To place a call to an out-of-office telephone number from a Local Extension you must first access an available line by choosing a Hunt Group (9, 81-88) at the internal dial tone. Restrictions to specific Line Hunt Groups can be configured per extension. Your extension can also be configured to Directly Access a specific line (i.e. when a handset is picked up, you will hear the Telephone Company dial tone (not TalkSwitch's) and can dial an outside telephone number as usual).

If you have Direct Line Access enabled for a Local Extension, you will need to dial 'Flash' then '4' before dialing any extensions.

3.2.2 Receiving calls at a Local Extension

To receive calls at a Local Extension, simply pick up the extension's handset when the extension rings. If the call went through the Auto Attendant to the extension and it has call screening enabled (configured on the Local extension and Ring Group pages), you have the choice of accepting the call by pressing # or, re-routing the call to it's 'Answer at ext.' Call Cascade options by pressing * or hanging up.

Call Pick Up/Call Grab:

To intercept a call that is ringing at another Local Extension before the Auto Attendant has engaged, pick up your handset and at the TalkSwitch internal dial tone, dial *9. This will route the call to your Local Extension. It is important to note, however, that you cannot "Grab" calls ringing at other extensions once the Auto Attendant has answered the call.

3.2.3 Placing calls on Hold at a Local Extension

To Place calls on hold:

To place callers on hold, press Flash. Follow the same procedure to take callers off immediate hold. If you have multiple callers on hold or in queue at your extension, you can press 'flash' '7' to retrieve callers on a first in / first out basis.

3.2.4 Transferring calls

From a Local Extension to another Local Extension, Remote Extension or Extension Ring Group:

To initiate an Unscreened Transfer - Put the caller on hold (by dialing 'flash'), dial the appropriate extension number and hang up. The caller will be taken off hold when the receiving extension is answered. If the transferred call is not answered after the number of rings specified in the No Answer setting for the destination extension or, if the extension is busy, either of the following will happen:

Default:	The transferred call will be handled according to the destination extension's No Answer or, Busy at extension settings.
Option:	The call will be transferred back to the transferring extension.

These options are chosen in the Transfer Options tab in the Advanced Settings folder.

To announce calls before transferring (Screened Transfer) - Put the caller on hold and dial the appropriate extension number. If the person at the receiving extension answers and wishes to take the call, simply hang up or optionally, dial 'flash' '4' to complete the transfer and get internal dialtone. The caller will immediately be taken off hold and connected with the receiving extension. If the person at the receiving extension does not wish to take the call, you can press 'flash' '5' to return to the caller.

If you tend to handle many calls, you may want to *complete* or *cancel* a transfer without hanging up. Flash '4' will *complete* the transfer and then provide internal dialtone while flash '5' will cancel the *transfer* and connect you back to the caller.

From a Local Extension to any outside telephone number:

To initiate an Unscreened Transfer - Put the caller on hold, select a Line Hunt Group (dial 80 for Same Line Connect), then dial the outside telephone number and hang up. The caller will be taken off hold and connected to the outside person as soon as you hang up.

To announce calls before transferring - Put the caller on hold, select a Line Hunt Group, then dial the outside telephone number. If the person at the receiving extension answers and wishes to take the call, simply hang up or optionally, dial 'flash' 4 to complete the transfer and get internal dialtone. The caller will immediately be taken off hold and connected with the receiving

extension. If the person at the receiving extension does not wish to take the call, you can press 'flash' 5 to return to the caller.

If you have the 3-Way Calling/Conference or Centrex Transfer feature enabled on the current line, you can select the Same Line Connect (80) to make use of these features. Everything proceeds as outlined above other than the fact that you are using the same line to transfer the call.

3.2.5 Call Park - Parking and retrieving callers

Call Park is a useful feature for placing a caller on hold and then being able to retrieve them from any other Local Extension. TalkSwitch has 10 Park Orbits for all models.

To place a caller in a Park Orbit, press Flash then * and choose a Park Orbit (500 to 509). You will hear a confirmation after parking the caller, it means the caller has been parked successfully. If the Park Orbit is already occupied, you will hear "I'm sorry, that extension is unavailable at this time." then dialtone. Once again press * and choose a new Park Orbit. Once the caller is parked, you can retrieve the caller at another extension by pressing ** and the appropriate Park Orbit.

If you have the External Paging option enabled on TalkSwitch, you may choose to announce over the P.A. system (by pressing *0) that there is a call parked in a specific Park Orbit for a co-worker. (For example: "Bob, please pick up 501." - which tells Bob that he can retrieve the parked call from any extension by getting dial tone and pressing **501. The caller will now be connected to Bob at that extension.)

3.2.6 Call Queue - Queueing and retrieving callers

Call Queue is a useful feature for placing multiple callers on hold at your extension. It is similar to the telephone company feature Call Waiting. Call Queue is enabled in the Call Cascade section for Local Extensions and Extension Ring Groups. Callers will get queued at your extension if you set the first level in the 'Busy at extension' Call Cascade to 'queue caller'.

If an extension is chosen at the Auto Attendant or the caller is transferred from another extension and the extension is currently busy and has 'queue caller' set for the 'Busy at extension' Call Cascade, the caller will hear one of the following prompts:

If the call came from the Auto Attendant and the extension has a voice mailbox:

"The extension you have reached is currently busy. If you wish to continue holding, please remain on the line. To leave a voicemail message, press 1, and to return to the main menu, press *."

If the call came from the Auto Attendant and the extension has no voice mailbox:

"The extension you have reached is currently busy. If you wish to continue holding, please remain on the line and to return to the main menu, press *."

If the call was transferred from another extension, there is no Auto Attendant on this line and the extension has a voice mailbox:

"The extension you have reached is currently busy. If you wish to continue holding, please remain on the line. To leave a voicemail message, press 1."

If the call was transferred from another extension,there is no Auto Attendant on this line and the extension has no voice mailbox:

"Your call is important to us, please remain on the line."

While the caller is on hold at your extension you will hear a 'Call Waiting' beep in your ear every 45 seconds. If you want to rotate through queued callers, dial Flash then '7'. The caller you are speaking to will be placed on hold, and the first caller in the queue will be retrieved. If you have multiple callers queued up, pressing Flash then '7' will retrieve callers on a first in/first out basis.

Queuing callers from an Extension Ring Group

If you want to queue callers for a Ring Group, you can only queue callers to one of the extensions in the Ring Group and not to the entire Ring Group. TalkSwitch does not have the resources to perform Automatic Call Distribution with Ring Groups.

3.2.7 Conference calling with TalkSwitch

2 TalkSwitch Local Extensions and 1 outside caller:

You do not require access to the telephone company's 3-Way Calling/Conference service to use TalkSwitch's conference calling capabilities.

1. Establish a call with an outside party.
2. Place the outside caller on hold by pressing Flash and dial the number of the Local Extension you wish to conference with.

3. When the extension is picked up, you can establish the 3-way call at anytime by pressing Flash then '6'.

2 outside callers and 1 Local Extension (Line 1 and Line 2):

You can do this type of conference call using two different methods.

The first method is similar to above, using only TalkSwitch for the conference function.

1. Establish a call with an outside party.
2. Place the outside caller on hold and dial the number of the other outside party you wish to conference with.
3. When the call is answered, you can establish the 3-way call at anytime by pressing Flash '6'.

When using the telephone company's 3-Way Calling/Conference service you can conference by following the instructions below:

1. Establish a call with an outside party.
2. Place the outside caller on hold by pressing Flash twice and then dial the number of the other outside party you wish to conference with.
3. When the call is answered, you can establish the 3-way call at anytime by pressing Flash twice.

3.2.8 Using Phones connected in parallel to TalkSwitch

Phones connected in parallel with TalkSwitch will always ring at least once before TalkSwitch starts ringing its extensions or the Auto Attendant answers the call . This occurs because TalkSwitch uses the first ring to identify the incoming call before passing it on to the extensions or the Auto Attendant (e.g. TalkSwitch determines if the call is a Distinctive Ring and detects any Caller ID information). A parallel phone can 'barge in' on any telephone call on any of TalkSwitch's Lines (e.g. any calls to or from a TalkSwitch extension).

Making and receiving calls on phones connected in parallel with TalkSwitch:

Making Calls: Make calls on parallel connected phones just as you would if TalkSwitch were not sharing the telephone line with them.

Answering Calls: If a call is answered on a parallel connected phone before the Auto Attendant engages, simply continue with the call as per usual, TalkSwitch will take no further action. If a call is answered on a parallel connected phone after the Auto Attendant engages, you can turn off the recorded Auto Attendant message by using the phone's touchtone keypad to dial '✱✱ 0'. You may then continue the call on the parallel connected phone.

Transferring calls on parallel connected phones:

Calls answered on a parallel connected phone can be transferred to any TalkSwitch extension or voice mailbox. If you want to transfer the caller, simply key in the 'Transfer Prefix ✱✱', then after you hear 2 'beeps', enter the extension or voice mailbox number then hang up. You cannot announce a caller to the transferred extension, but if you do stay on the line, you will be in a 'conference call' state. You can hang up at any time.

If you transfer a call from a parallel connected phone and then hang up, the extension will ring the number of times selected for that extension. If the extension is not answered within the specified number of rings, the call will be handled according to that extension's Call Cascade actions.

You have the ability to change the Transfer Prefix to ✱# instead of ✱✱. You may need to change the prefix if the default prefix conflicts with another device or service. To change the Transfer Prefix, open the configuration software and change the setting in the Manual Transfer tab under 'Options'.

3.2.9 External modem telephone line access

If your external modem has been attached to TalkSwitch as an extension, you can configure it to access your telephone lines in one of two ways:

1. Direct Line Access: You can give the extension to which your modem is attached 'Direct Access' to one of your telephone lines (i.e. you don't have to dial 9, or any other Hunt Group to access an outside line). This can be a useful option if you have decided not to use a telephone on the same extension as your modem.
2. Hunt Group Restriction: If you have decided to use a telephone and modem on the same extension, 'Direct Access' may not be the best solution. TalkSwitch extensions with 'Direct Access' immediately connect to one of your lines when you pick up the telephone's "hand set". Therefore, you are unable to select a specific telephone line or use the extension for 'Intercom' calls or to configure TalkSwitch.

To have your modem access a specific line or Hunt Group:

Change your modem's 'Dial Properties' to include the intended Hunt Group (81-88 or 9) followed by the letter 'w', before the 'Dial up Networking' telephone number (e.g. 9w555-5555). Including the letter 'w' after your 'Dial out Access' number instructs your modem to a) dial the access number 81-88 or 9, and b) wait until it detects a dialtone, and then c) dial your 'Dial up Networking' number. If your modem is having problems dialing out, you may have to use a comma ',' which represents a 2 second pause, instead of the 'w' for 'wait for dialtone'.

To change your modem's dial properties in Windows 95/98:

1. 'Double Click' on the 'My Computer' icon on your Windows screen. Then 'double click' on 'Control Panel', and finally 'Modems'.
2. When the 'Modems Properties' screen opens, click on the 'Dialing Properties' button.
3. In the section labeled 'To access an outside line, first Dial', enter the Dial out Access number (81-88, or 9) that you have chosen to use. (Enter your Dial out Access number for both local and long distance numbers.) Then type in the letter 'w' or ',' directly after the Dial out Access number.
4. Click the 'OK' button to save your changes and close the screen; then close the 'Modems Properties' screen.

3.3 Out of the Office - Receiving Calls through Call Forwarding

3.3.1 The three ways to forward calls

1. Automatic call forwarding - The Auto Attendant can automatically forward office calls to your call forwarding telephone number(s) (Remote Extensions). This is done by using the Auto Attendant message to prompt callers to select your Remote Extension number(s). (e.g. "To speak to John Doe, press 211.")
2. Manual call forwarding - If someone in your office has answered a call at a Local Extension, the call can be 'transferred' to one of the call forwarding (Remote Extension) numbers. Simply put the call on hold at the Local Extension, dial the Remote Extension number (e.g. 211) to which you want the call forwarded and then hang-up. The call will be handled according to the Call Cascade options of that Remote Extension.
3. Conditional call forwarding - If the Auto Attendant answers a call and the caller selects an extension or Ring Group number that is already busy or is not answered, the Auto Attendant can forward the call to a Remote (out of office) extension number. Conditional call forwarding is configured using the Call Cascade's 'No answer' or 'Busy at extension' settings configurable for each Local Extension, Remote Extension and Ring Group.

3.3.2 Screening options for forwarded calls

The screening options for Call Forwarding are configured using the Call Cascade's 'Answer at ext.' options available in the 'Remote Extension' tab, see section 2.3.2.5

Forwarding calls with screening:

When 'play accept/reject prompt' is configured in the 'Answer at ext.' Call Cascade option, TalkSwitch plays a pre-recorded prompt to the caller asking them to hold, and then dials your call forwarding telephone number. When you answer the forwarded call, TalkSwitch plays a pre-recorded prompt to you that identifies the call as having been forwarded from your home/office ("This is Call Forward"). You then have the choice of accepting the forwarded call by pressing # on your telephone keypad or, re-routing the call to it's call screening Call Cascade options by pressing * or hanging up.

When 'play caller's name first' is configured in the 'Answer at ext.' Call Cascade option, TalkSwitch plays a pre-recorded prompt to the caller asking them to record their name at the sound of the tone. TalkSwitch then asks the caller to hold and dials your call forwarding telephone number. When you answer the forwarded call, TalkSwitch plays a pre-recorded prompt identifying the call as having been forwarded from your home/office ("This is Call Forward, you have a call from...") and then plays the recording of the callers name. You have the choice of accepting the forwarded call by pressing # on your telephone keypad or, re-routing the call to it's call screening Call Cascade options by pressing * or hanging up.

If a forwarded call is not answered or the line is busy, TalkSwitch will perform the following based upon how the call was originally forwarded:

If the call was automatically forwarded: the call will follow the Remote Extension's 'No answer at ext.' or 'Busy at extension' Call Cascade action.

If the call was manually forwarded: The call will follow the Remote Extension's 'No answer at ext.' or 'Busy at extension' Call Cascade action. This action can be changed to ring the extension back who performed the transfer in the Options>Manual Transfer tab.

If the call was conditionally forwarded: The call will follow the following Call Cascade action in the 'No answer at ext.' or 'Busy at extension' for the original extension chosen.

3.4 Out of the Office - Making Calls with Call Back and Call Bridge

Working together, Call Back and Call Bridge act as your personal long distance operator. Whether you are across town or around the world, these two features allow you to place calls from your home/office telephone line(s).

3.4.1 Using Call Bridge

Call Bridge allows you to place calls using your office telephone lines when you are not in the office. You can make a direct call to TalkSwitch, access a telephone line connected to TalkSwitch and enter the number you want to dial. This is especially useful when out of the office with your cell phone and need to dial a long distance number. To avoid the inflated long distance cell rates all you need to do is make the local call to TalkSwitch to access Call Bridge, then make the long distance call - accessing your office savings plan.

How to use Call Bridge:

Dial into one of TalkSwitch's Lines (Main or Distinctive Ring). When the Auto Attendant answers, select a Hunt Group (81-88 or 9) or Same Line Connect (80). You will then be asked to supply your Account password to receive dial tone. If you are using Same Line Connect 80, and the line you are on supports the 3-Way Calling/Conference service, you will be prompted to enter the phone number.

When you have completed your call or if the telephone number dialed was busy; you can do one of the following:

A) Make another call: Press # #. TalkSwitch will disconnect you from the call in progress and you can dial another number or redial the same number.

B) Activate the Auto Attendant: Press # *. TalkSwitch will end the Call Bridge session and activate the Auto Attendant. Once the Auto Attendant message begins playing, you have the following options:

- Dial # (and enter a password if applicable) to enter Command Mode.
- Dial '6' to change/enter Call Back settings.
- Dial one of your extension numbers (Local, Remote or Ring Group). This option allows you to use Call Back to contact someone in your office, check your voicemail, etc.

C) End the Call Bridge Session: Simply Hang up. This will end your Call Bridge session and disconnect you from TalkSwitch. If you want to guarantee that TalkSwitch disconnects at the end of a Call Bridge session, dial ##, then hang up.

If you changed the 'Special Prefix' to # instead of *, you will need to dial ** to make another call, and dial *# to return to the Auto Attendant. To enter command mode, you will still need to enter #.

The Call Bridge telephone number dialed can be any telephone number: local, long distance, toll free (800 and 888) or international. Simply enter the telephone number as you would if you were sitting in your office. For long distance calls, do not forget to include the '1', country code, and area code if applicable.

3.4.2 Using Call Back

The Call Back feature allows you to initiate TalkSwitch to call you at a specified telephone number. This gives you access to any of the following:

- Call Bridge
- Local Extensions, Remote Extensions and Extension Ring Groups
- Voicemail retrieval
- Configuration settings

Using Call Back involves '3' easy steps:

1. You call your TalkSwitch telephone number to activate Call Back.
2. You answer and accept the Call Back. (TalkSwitch calls you back within 30 seconds.)
3. At the Auto Attendant you can: choose to perform Call Bridge, dial any extension, retrieve voicemail or configure TalkSwitch.

Activating Call Back:

There are two ways to activate Call Back, Prompted and Auto activation:

1. Using 'Prompted Call Back' Activation: From your out-of-office location, dial a TalkSwitch telephone number ('Main' or 'Distinctive Ring'). Let the line ring until the Auto Attendant answers your call and then dial '6' on the telephone keypad. If you have enabled password protection you will be asked to supply your password and TalkSwitch will then offer a series of prompts. Now you can either enter 1 and hang up to initiate the Call Back or, if you need to enter a new Prompted Call Back number, enter 2 to access the Prompted Call Back settings then follow the prompts.

For Prompted Call Back, TalkSwitch always dials the last Prompted Call Back number entered. If you do not have the Auto Attendant set to answer a line, a generic TalkSwitch Auto Attendant will answer after 15 rings and you can then dial 6 to access the Call Back settings.

2. Using 'Auto Call Back' Activation: From your out-of-office location, dial one of the Call Back telephone numbers that has been pre-configured for Auto Call Back activation. Let the line ring at least once, but no more than three times and then hang-up (before the call is answered). Within 30 seconds, TalkSwitch will dial your Auto Call Back number.

It is important to remember that all the Call Back settings must be pre-configured before using Auto Call Back. Please be sure that the Auto Attendant for the line using Call Back does not answer before 4 rings.

Accepting the Call Back:

There are two ways to accept a Call Back from TalkSwitch.

1. Call Back is normally accepted by simply answering the call and pressing #, then entering your password. This option is used when you have a direct line in at your Call Back telephone number.
2. The 'Use Announced message' option allows the Call Back from TalkSwitch to reach you even when you are staying at a hotel or are in an office where calls are intercepted by a receptionist or switchboard operator. When the Call Back is answered, TalkSwitch will begin playing your pre-recorded message (e.g. "Please forward this call to Jane Doe in room 312"). The message will be played repeatedly for '2' minutes. When the call is forwarded to you, press #, then enter your password on the telephone keypad to accept the Call Back. (If the Call Back is not accepted within the initial '2' minute period, TalkSwitch will disconnect the Call Back.) After you accept the call, you will hear the Auto Attendant, and you can now make your selection to check your voicemail, ring an extension, use Call Bridge, or enter command mode.

3.5 Using the Internal Voicemail System

3.5.1 Activating Voice mailboxes

A Voice mailbox is activated from the TalkSwitch configuration software. There are 3 series of Voice mailboxes that can be activated in the Voicemail secion of the configuration:

Local Extensions mailboxes:

These mailboxes are generally associated to the Local Extensions. By default, all Local Extensions are activated with their respective mailbox

Remote Extension mailboxes:

The Remote mailboxes are associated with the Remote Extensions. If you activate a Remote Extension and want a voice mailbox associated with that extension, you can activate that mailbox in the Voicemail tab.

General mailboxes:

These mailboxes are activated in the Voicemail tab. They are not associated to any particular extension.

3.5.2 Accessing a Voice mailbox

To access a mailbox to retrieve messages or change mailbox options, dial ✱✱ <mailbox number> either from a Local Extension or at the Auto Attendant if dialing from an outside location.

Once you are in your mailbox, through prompt instructions, you may do the following:

Listen to messages: (if any are present), with the ability to perform the following actions:

While messages are being played:

Dial 1: Rewind 5 seconds

Dial 11: Rewind to beginning of message

Dial 2: Pause message (dial 2 again to continue playing message)

Dial 3: Skip ahead 5 seconds

Dial 33: Skip to end of message

Dial 7: Delete message

Dial 9: Save message

After a message has been played:

Dial 1 : Rewinds to last 5 seconds of message

Dial 11: Replays message

Dial 6: Forward the message

Dial 7: Delete message

Dial 9: Save message

Change greeting options:

This section allows you to record a new personal voicemail greeting. The default greeting is “The extension you have reached is unavailable at this time. Please leave a message after the tone”.

Change personal options:

This section allows you to change your current password and turn auto date and time stamp on or off. If you turn auto date and time stamp on, this information will be played following each message.

3.6 Music-on-Hold

If you ENABLE Music-on-Hold and have an audio device plugged into the back of TalkSwitch:

1. When callers are put on hold at an extension, callers will hear your music instead of TalkSwitch's default on hold beeping tone.
2. When the Auto Attendant answers a call and transfers the caller to an extension; the caller will hear a pre-recorded message saying "please hold", and then hear your music.

If you ENABLE Music-on-Hold and do not have an audio device plugged into the back of TalkSwitch:

1. When callers are put on hold at an extension, TalkSwitch will not play its default on hold beeping tone. The caller will hear silence.
2. When the Auto Attendant answers a call and transfers the caller to an extension, the caller will hear a pre-recorded message saying "please hold" and then hear silence.

If you DO NOT ENABLE Music-on-Hold and have an audio device plugged into the back of TalkSwitch:

1. When callers are put on hold at an extension, callers will hear TalkSwitch's default on hold beeping tone and your music.

2. When the Auto Attendant answers a call and transfers the caller to an extension, the caller will not hear any pre-recorded message. They will hear your extension ringing and your music.

What happens if you DO NOT ENABLE Music-on-Hold and do not have an audio device plugged into the back of TalkSwitch:

1. When callers are put on hold at an extension, they will hear TalkSwitch's default on hold beeping tone.
2. When the Auto Attendant answers a call and transfers the caller to an extension, callers will hear your extension ringing.

Music-on-Hold and Call Forwarding:

If you are using the telephone company's 3-Way Calling/Conference service to activate TalkSwitch's Call Forwarding, callers will not hear your 'music' when being forwarded to a Remote Extension. When calls are forwarded, the caller is put on hold by the telephone company central office switch rather than at TalkSwitch. Therefore, the caller hears silence while being transferred.

3.7 Mode Switching Options

Manual Mode Switching:

You can use Telephone Keypad Commands to have TalkSwitch switch Modes.

First dial # to enter command mode, then enter a password if necessary. Next, dial any of the following Quick Commands followed by the # sign:

Activate Mode 1:	3 1
Activate Mode 2:	3 2
Check Current Mode:	3 0

Automatic Mode Switching using the Time Scheduler:

Use the Configuration software or Telephone Keypad Commands to activate TalkSwitch's Time Scheduler feature. You can configure TalkSwitch to automatically switch between Modes by configuring the times for Mode changes in the 'Modes' tab located under Call Handling in the configuration software.

3.8 Upgrading the TalkSwitch Firmware

We are continually looking for ways to enhance your communications capabilities. When new features are added, we want TalkSwitch users to have immediate access to the update.

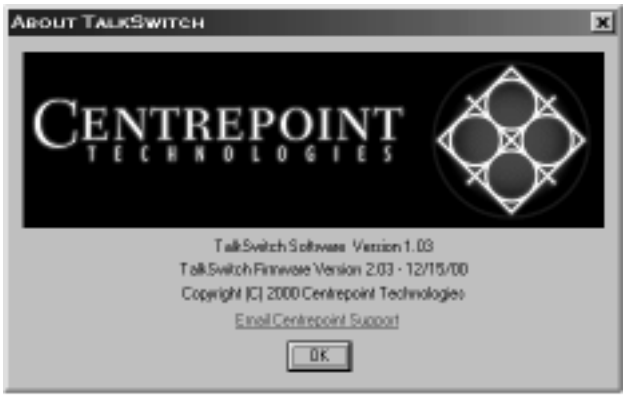
The ease with which TalkSwitch's firmware program can be updated and the convenience of having updates readily available to users on our website, makes it possible for us to provide quick and easy TalkSwitch enhancements!

TalkSwitch's firmware program (or the programming code that operates your TalkSwitch) is located on a 'Flash EPROM'. This means that the Code operating your TalkSwitch can be 'updated' without removing the chip that contains the code. Because of this, you can easily update your TalkSwitch by disk or by visiting our website at www.talkswitch.com and downloading an update from the Support area.

Step # 1

The first step is to select and download the proper update file from the Centrepoint Technologies website (www.talkswitch.com). It is possible that you will also need to download the corresponding configuration software. In this case, the firmware and software will be integrated in one file.

To identify the appropriate update file, you must first determine your TalkSwitch firmware and software version. You can find your TalkSwitch version numbers by selecting 'About' from the main splash screen or on the 'About' tab in the configuration.



Write down the software and firmware version numbers and then go to the Support section of our website at www.talkswitch.com. You will find instructions there to help you to select and download the appropriate upgrade.

Step # 2

When you select and click on the appropriate version for download, a screen will appear asking you what you would like to name the file you are about to download, and in which folder/directory you would like to save it. We suggest leaving the file name 'as is' (install.exe) and saving it on your Desktop. Once the download is completed, you can begin your upgrade by double clicking on the 'install.exe' file or use the 'Run' option on your Window's 'Start' menu. A series of screens will guide you through the installation process.

Step # 3

The final step in the upgrade process is to open the TalkSwitch software and select 'Flash Upgrade' from the main splash screen. A screen will appear warning you not to interrupt the update process once it has begun. Click on the "Yes" button to proceed. A second screen will then appear asking you to select the appropriate update (.bin) file. If you see more than one .bin file, select the most recent file (the one with the highest number).

Highlight the newest firmware file, then click the "Open" button.

The final stage of the update process will take approximately 3 minutes, during which time the LED lights on TalkSwitch's front panel will flicker.

When the update is complete, the following screen will appear:

Click the "OK" button and the TalkSwitch software will then close. There is no need to restart Windows or TalkSwitch - your updated TalkSwitch Firmware is now ready to go!

In the event the firmware update was unsuccessful, please try the update process again and follow the instructions. If you continue to have problems please contact Centrepoint Technologies.

Firmware updates will not alter your system configuration. In the event of a major system update, it may be necessary for the configuration file to be reset to default values. In this case you will need to reconfigure the entire system. In the case of a major system update, Centrepoint Technologies will mention any issues involved with the firmware update.

Appendices

Appendix A - Help & Troubleshooting

Appendix B - Using TalkSwitch with Telephone Company Calling Services

Appendix C - Quick Commands and DTMF Functions

Appendix D - Safety Precautions and Regulatory Information

Appendix E - TalkSwitch One Year Warranty

Appendix F - Return Policy

Appendix G - TalkSwitch and Power Interruptions

Appendix A - Help & Troubleshooting

If you are having problems with the configuration or operation of TalkSwitch, please check the Troubleshooting section starting on this page. If you don't find the solution to your problem, next try checking the FAQ section located under the Support area at our website: www.talkswitch.com.

If you cannot resolve your problem and require further assistance, you can do one of the following:

1. Contact our Customer Support department by e-mail: help@talkswitch.com.
2. Ask for a 'Technical Support Specialist'. If you would like to speak with a Technical Support Specialist, call Centrepoint Technologies at (613) 725-2980 weekdays between 9:00 a.m. and 5:00 p.m. EST.

Please have the following information available when you call:

a) Your e-mail address and telephone number.

b) The serial number located on the bottom of TalkSwitch and your date of purchase.

c) The number of telephone lines that you have connected to TalkSwitch.

d) The telephone company services that you are using with TalkSwitch.

e) Your PC's operating system (e.g.Windows 95, 98, 2000 etc.)

You can also write us at Centrepoint Technologies, Technical Support Department, 1545 Carling Ave., Suite 510, Ottawa, Ontario, Canada, K1Z 8P9.

Troubleshooting

This section of the manual is designed to help you quickly resolve problems that can be experienced by new TalkSwitch users. The problems and their corresponding solutions are organized in the following manner.

1. Problems that can occur when installing the Configuration software.
2. Problems that can occur during Configuration.
3. Problems that can occur while using TalkSwitch's features.

Before examining the 'Problems', review these common installation checks first!

The first things you should check

1. Check that your telephone cables are connected to a wall jack at one end and TalkSwitch at the other. Ensure the devices you are using as TalkSwitch extensions (phones, faxes, etc.) are plugged into the extension jacks located on the back panel of TalkSwitch. (Do not plug your extensions directly into a wall jack.)
2. Check the Serial cable or USB connection between TalkSwitch and your PC.
3. Ensure that TalkSwitch's power adapter is plugged into a working power outlet and that TalkSwitch is turned on. Please make sure that you are using the power adapter that was provided with TalkSwitch. This is a unique adapter and it cannot be substituted with any other adapter. If your adapter appears to be defective, please contact Centrepoint Technologies to order the proper replacement adapter.

Problems that may occur during Configuration

Problem: I am not able to "Retrieve settings" from my TalkSwitch.

- Make sure your TalkSwitch is turned on and plugged into a working power outlet. Then select "Retrieve settings", available under the File menu in the Configuration Software.
- Make sure the serial or USB cable connecting TalkSwitch and your PC is securely attached to the serial ports. "Retrieve settings", available under the File menu in the Configuration Software.
- From the Control Centre, choose 'PC Connection' and then select COM Port. Ensure that the Configuration Software is using the correct port to communicate with TalkSwitch. Then select "Retrieve settings", available under the File menu in the Configuration Software.
- Try 'resetting' TalkSwitch (turn the power off and then back on). Then select "Retrieve settings", available under the File menu in the Configuration Software. This will often correct any 'miscommunication' that may have occurred between TalkSwitch and your PC.

Problem: I am unable to configure TalkSwitch using a touchtone phone and the Keypad Commands.

- TalkSwitch cannot be configured using a phone connected in parallel to TalkSwitch.
- If you are trying to configure TalkSwitch using an Out-of-Office phone, you must first enter Command Mode. If you have enabled password protection, you must also first enter the correct password.
- If you are trying to configure TalkSwitch using a Local Extension, make sure the extension has not been given 'Direct Access' to your telephone lines. If so, you will have to dial flash 4 to receive internal dialtone.

Problems that may occur while using TalkSwitch's features

The Auto Attendant:

Problem: The Auto Attendant does not play when calls come in.

- Make sure you have recorded the Auto Attendant message.
- Check your Call Handling settings for the 'Auto Attendant answers' number of rings. It may be that the number of rings after which the Auto Attendant is set to answer calls is set too high.

Problem: The Auto Attendant message is broken up or very faint.

- Adjust the Auto Attendant Playback volume setting located in the Auto Attendant tab in your Incoming Calls folder of the Configuration software. You may also attempt to re-record the Auto Attendant after increasing the record volume.
- The quality of the microphone in the telephone handset that you are using to record your Auto Attendant also affects the quality of your recording. Try recording the Auto Attendant using another extension/telephone.

Problem: The Auto Attendant answers calls before any of the extensions ring.

This is a problem for those TalkSwitch users who wish to have their local extensions ring before the Auto Attendant picks up incoming calls.

- Check the 'Extensions to ring on incoming call before Auto Attendant answers' setting in the Call Handling tab in the 'Inbound Calls' folder. It may be that the number of rings after which the Auto Attendant is set to answer calls is set too low. **(**More specifically, check to see if the Auto Attendant is set to answer calls before the extensions are set to begin ringing in the extensions to ring on incoming call section.**)**

Problem: The Auto Attendant is transferring calls to the wrong extension.

- Verify which extension jacks your devices (phones, faxes) are attached to.

Problem: The Auto Attendant answers calls, but does not transfer them to the extensions.

- Make sure your extensions are plugged into the extension jacks on the back panel of TalkSwitch (instead of your telephone wall jacks).

Music-on-Hold:

Problem: Callers hear music and 'ringing' when the Auto Attendant transfers their call to an extension.

- You have an audio device plugged into TalkSwitch, but have not enabled (turned on) the Music-on-Hold feature found on the Auto Attendant tab in the Inbound Calls folder.

Problem: Callers hear music and a beeping sound when put on hold at an extension.

- You have an audio device plugged into TalkSwitch, but have not enabled (turned on) the Music-on-Hold feature found on the Auto Attendant tab in the Inbound Calls folder.

Problem: Callers hear a 'Please Hold' message and then total silence when the Auto Attendant transfers their call to an extension.

- You have enabled (turned on) the Music-on-Hold feature, but have not attached an audio device to TalkSwitch.

Problem: Callers hear only silence when put on hold at an extension.

- You have enabled (turned on) the Music-on-Hold feature, but have not attached an audio device to TalkSwitch.

Call Routing with Local Extensions and Home Phones (Transfer and Intercom):

Problem: Callers are disconnected when transferring calls from one extension to another.

- It is possible that if you are using the hookswitch to put callers on hold rather than a Flash button, you may be holding the hookswitch down too long, and as a result are actually hanging up on the caller.

Problem: Unable to place intercom calls from a Local Extension.

- You can not use a Local Extension that has been given 'Direct Access' to your telephone lines for intercom calling. To change this setting, go to the Local Extension configuration tab and make the necessary adjustment by giving access to a Line Hunt Group or dial Flash then '4' to get internal dial tone.

Call Hold:

Problem: Unable to place calls on hold (Calls are disconnected).

- Extensions that have been given 'Direct Access to Telephone Lines' cannot use TalkSwitch's 'Call Hold' feature. These extensions will also not have access to any of the call handling features which require the use of Hold, such as transfer call Grab, etc.

Answering and Fax Machines:

Problem: The answering machine and/or fax machine picks up calls before they can be answered by telephone extensions.

- Check your settings in the 'Call Handling' tab in the Software Configuration. The problem may be that your fax machine/answering machine extension is set to answer calls at the same time as your telephone extensions. To fix this problem, click the "Adjust sequence" button and set the slider bars for your telephone extensions so that they will ring a few times before your fax/answering machine begins ringing.

Problem: Incoming faxes are not automatically detected and routed to the fax machine.

On the Auto Attendant tab of the configuration software, check to ensure that you have chosen the appropriate extension for the field labeled 'if a fax call is detected'.

- Not all fax machines emit a CNG tone that TalkSwitch can detect and route. Therefore, it is wise to consider incorporating an additional method of fax routing. This may include the use of a distinctive ring number or giving the caller the option to select the fax extension.
- On average, fax machines/modems will 'time out' or disconnect after 20 seconds if they have not connected with another fax machine/modem. If you are using the 'User does not make a selection' option to route incoming faxes, the fax call may 'time out' before it reaches your fax extension. If your Auto Attendant is lengthy, you may want to shorten it or use another fax routing option.
- The level of the Auto Attendant is too loud and as a result is overpowering the CNG tone effecting detection. You may want to lower the volume level of the Auto Attendants.

Other Possible Local Extension Problems:

Problem: I am unable to access TalkSwitch's Lines with a Local Extension.

- Check your 'Dial Out Access' settings on the Local page under 'Extensions' of the Software Configuration. If a Local Extension has not been given 'Direct Access' to your telephone lines, you must dial (81-88 or 9) to access one of TalkSwitch's Lines.

Problem: My PC attached (Internal or External) Modem cannot dial out.

- If the extension to which your Modem is attached has not been given 'Direct Access' to telephone lines, you will have to include a Line Hunt Group prefix (81-88 or 9) before the number you are dialing. For more information about Dial Out Access and changing your Modem's dial properties, see section 3.2.9, "External modem telephone line access".
- You may have to change your Modem's properties so that it waits for a 'dialtone' before it begins dialing your Dial Up Networking number. For more information about changing your Modem's properties, see section 3.2.9, "External modem telephone line access".

Problem: One of the Local Extensions (telephones) does not ring.

- Some telephones require more 'voltage' in order to ring. These phones are usually the older 'Bell' phones that have mechanical ringers. These phones are simply too much of a load for TalkSwitch and should not be used as an extension.

Problem: Extension(s) ring, but there is no caller.

- This can occur when a caller hangs up after the Auto Attendant has begun to play. In some areas, the Telephone Company's 'disconnect/clear' signal is weak. This is the reason the Auto Attendant may not pick up the disconnect signal right away when a caller hangs up. Because the Auto Attendant will receive no response after playing its message, the call will fall through to your settings for the 'User does not make a selection' option associated with that Auto Attendant.

Appendix B - Using TalkSwitch with Telephone Company Calling Services

Many of the calling services offered by your local telephone company are compatible with and enhanced by TalkSwitch's capabilities.

Caller ID (Call Display) - Displays the telephone number and name associated with an incoming call.

TalkSwitch is capable of regenerating the Caller ID and passing the information to its Local Extensions When incoming calls are transferred by the Auto Attendant, TalkSwitch regenerates the Caller ID and passes it only to the selected Local Extension. If a Local Extension is configured to ring at least twice before the Auto Attendant answers, TalkSwitch will pass the Caller ID information to that extension. If a call is transferred from one extension to another, the Caller ID information will also be passed. TalkSwitch can also use the Caller ID's time stamp to set it's internal clock.

Distinctive Ring - The ability to have more than one telephone number that callers can dial to reach the same telephone line. (Distinctive Ring is also referred to as: Ident-A-Ring, Ident-A-Call, Ring Master, Teen Service, Double Number, Personal Ringing, Ring Plus, Smart Ring Service, Special Ring or Customized Ringing.)

TalkSwitch can detect Distinctive Ring telephone numbers and use them to route incoming calls automatically. TalkSwitch gives you the ability to use two Distinctive Ring telephone numbers on all lines. Distinctive Ring numbers on TalkSwitch's Lines also have access to the Auto Attendant and all of TalkSwitch's other call routing features.

TalkSwitch's Distinctive Ring call routing features can be used a number of ways. Routing fax/modem calls, routing voice messaging, separating home/office calls, and making use of TalkSwitch's Auto Call Back feature. Each Distinctive Ring number has a 'distinctive' ring cadence or ring sequence, which allows you to identify the telephone number that was dialed.

Voicemail (Call Answer) - A service which gives callers the opportunity to leave a message when your phone line is busy or unanswered.

TalkSwitch can work in conjunction with your telephone company's Voicemail Service.

Call Waiting - If you are already on the phone, the Call Waiting service will emit a soft beeping sound to let you know you have another call waiting to be answered.

To talk to the other caller when you hear a Call Waiting beep, press the Flash button twice. To return to the other caller, you will need to press the Flash button twice again.

3-Way Calling/Conference - The 3-Way Calling/Conference service allows you to add a third party to a call already in progress.

The 3-Way Calling/Conference service enhances TalkSwitch's capabilities whether you have 1 or more telephone lines. Using only one telephone line with 3-Way Calling/Conference service , gives you access to TalkSwitch's Call Forwarding, Call Back and Call Bridge features.

Centrex/Plexar Transfer - The Centrex Transfer service is similar in function to the 3-Way Calling/Conference service. The primary difference is that two external parties can still remain in conversation even after you hang up. TalkSwitch does not disconnect after the transfer since we need to track the call progress.

Using only one telephone line with Centrex Transfer service gives you access to TalkSwitch's Call Forwarding, Call Back and Call Bridge features.

Hunt or Rollover - When using two or more lines, calls coming in on a busy line can be "rolled over" to an available line in a "hunt" pattern that you can set. There are two types of hunting - Sequential and Circular. Sequential hunting starts at the number dialed and ends in the last number in the assigned Group. Circular hunting hunts all the lines in the hunting Group, regardless of the starting point. (It will only circle once through the Hunt Group).

TalkSwitch has the same functionality available on all lines and therefore can work in conjunction with the Hunt and Rollover services.

Call Hold and Flash

TalkSwitch uses 'Flash' to put calls on hold. A Flash signal is produced by pressing the 'Flash' or 'Link' button on your telephone (Link is another name for Flash). If you do not have these buttons on your telephone, you can produce a 'Flash' by quickly depressing and releasing the telephone's 'Hangup Hook' or 'Hook Switch'.

Single Flash - is pressing the 'Flash' or 'Link' button once. You can also depress and release the telephone's 'Hangup Hook' or 'Hook Switch' once.

Double Flash - is pressing the 'Flash' or 'Link' button twice. You can also depress and release the telephone's 'Hangup Hook' or 'Hook Switch' twice. When using your telephone's 'Hangup Hook' to initiate a 'Double Flash', do not try to initiate the second Flash too quickly or you may lose or 'disconnect' your caller. Press and release the 'Hangup Hook' once, count to '2', then initiate the second Flash.

When would you use double flash?

1. If TalkSwitch is to connected to any other system/service that uses 'Flash' to activate its features (e.g. a Key Telephone System, PBX, or telephone line with the Centrex service from your phone company).
2. If you are using any of your local telephone company services that are activated with 'Flash' (e.g. Call Waiting, 3-Way Calling/Conference, etc.).

What does Single and Double Flash do?

TalkSwitch and the above-mentioned systems/services use 'Flash' to activate their calling features. TalkSwitch therefore needs a way to tell which (or whose) features you want to access when you press the 'Flash' button.

Using a 'Single Flash': places the caller on hold. (The Flash is not passed to the CO line, solving problems associated with Flash causing a hang-up at some COs.)

Using a 'Double Flash': first Flash places the caller on hold, and the second Flash (if pressed within 2 seconds) tells TalkSwitch to pass a Flash to the CO line to activate the CO or PBX intended feature.

Appendix C - Quick Commands and DTMF Functions

These DTMF Quick Commands can be dialed from a Local Extension or an outside telephone at the Auto Attendant. To enter Command mode, dial # at a Local Extension or at the Auto Attendant. If you are requested to enter a password, enter the Administrator password. Next, enter any command followed by the # sign.

Command	Action
30	TalkSwitch tells you which mode it is currently using
3x	Switch Modes (x = 1or 2)
4x	Record Auto Attendant (x = 1 to 9)
04x	Erase Auto Attendant messages (x = 1 to 9)
5x	Playback Auto Attendant messages (x = 1 to 9)
61	Record Auto Call Back Announced Message 1
62	Record Auto Call Back Announced Message 2
63	Record Auto Call Back Announced Message 3
64	Record Auto Call Back Announced Message 4
65	Record Prompted Call Back Announced Message
06x	Erase Call Back Announced Message (x = 1 to 5)
71	Playback Auto Call Back Announced Message 1
72	Playback Auto Call Back Announced Message 2
73	Playback Auto Call Back Announced Message 3
74	Playback Auto Call Back Announced Message 4
75	Playback Prompted Call Back Announced Message
90	Set to Serial connection mode (default)
91	Set to USB connection mode
2xx 8<phone number>	Enter Remote ext. (2xx) phone number
2xx 980 0	Enter Remote ext. (2xx) Turn off “Same Line Connect”
2xx 980 1	Enter Remote ext. (2xx) Turn on “Same Line Connect”
2xx 9 <Hunt Group>	Enter Remote ext. (2xx) “Connect using:” Hunt Group (Hunt Group = 9, 81-88)

DTMF descriptions dialed from a Local Extension.

DTMF	Function performed	Notes
111-114 (24 models) 111-118 (48 models)	Intercoms a Local Extension	Direct dial from dialtone.
119	Reserved	Direct dial from internal dialtone.
211-218	Dials a Remote Extension (associated with an external phone number).	Direct dial from internal dialtone.
300-309	Dials an Extension Ring Group - 10 in total for the entire system. Mapped to local extensions(s), with specific fall through options.	Direct dial from internal dialtone.
<flash> if connected to a caller	Puts caller on hold.	After putting a caller on hold, you receive internal dialtone.
<flash> at internal dialtone	It retrieves the most recent caller put on hold.	To retrieve the caller on hold for the most time, dial *7* at internal dialtone
<flash> at external dialtone	Switches to internal dialtone. Used mainly when an extension has Direct Line Access enabled.	Dialed when connected to an outside line.
*111-118 *211-218 *410-419	Dials into a voice mailbox.	To transfer a caller to a mailbox, press 'flash' to place a call on hold, then *111-118, *211-218, or *410-419 and hang up.
**111-118 **211-218 **410-419	Internal voicemail retrieval/access.	Direct dial **111-118, **211-218, or **410-419 from internal dialtone to retrieve voicemail.
<flash>4	Completes a transfer and returns to internal dialtone <or> disconnects TalkSwitch from external dial tone and gives internal dial tone.	Action performed after putting a caller on Hold then dialing an indented destination. <or> Action performed with Direct Line Access enabled at a Line.
*0	External P.A. Access	Direct dial *0 at dial tone to make an announcement through the attached external P.A. system.

DTMF	Function performed	Notes
<flash>5	Disconnects current caller and reconnects immediately to the last caller put on hold.	Action performed after putting a caller on Hold and dialing an intended destination.
*500-509	Call Parking Spaces - 10 in total for the entire system.	Press 'flash' to place a call on hold, then assign a parking space *500-509.
**500-509	Parked Call Retrieval	Direct dial **500-509 from dial tone to pick up a parked call.
<flash>6	Conference Call for 3 parties.	Press 'flash' to put the first caller on hold, dial another extension or external number, then press 'flash' 6.
*61	Enables 'Do Not Disturb' at the current extension	Direct Dial *61 at a local extension. User will hear confirmation. Reminder is played everytime the extension is picked up.
*60	Disables 'Do Not Disturb' at the current extension.	Direct Dial *60 at a local extension. User will hear confirmation.
<flash>7	Hold Retrieve - used for retrieving any calls placed on hold at that extension.	Direct dial from dial tone or by pressing 'flash' then 7 to cycle through on a first in / first out basis.
80	Accesses Same Line Connect when transferring an outside caller to another outside number.	Put the caller on Hold, dial 80, and then dial the outside number. Hang up to complete the transfer. Can only be used when the line has 3-Way Calling/Conference or Transfer (Centrex/Plexar) service.
81-88, 9	Line Hunt Groups used to access a line.	Direct dial from dial tone.
*8	Play music source through PA output	Direct dial from dial tone to toggle on or off music through the PA port. Useful for office background music.
*9	Call Pick up	Direct dial from dial tone to pick up a call ringing at another extension before the Auto Attendant answers the call.
#	Enters command mode	Direct dial # at a Local Extension

DTMF descriptions dialed at the Auto Attendant message

Digit dialed	Function performed
0	User Defined - Mapped to an Extension, Ring Group, Auto Attendant, Voice mailbox, Announcement or perform no action.
111-114 (118)	Dials Local Extensions (For the TalkSwitch 48 models, the extensions are 111-118).
211-218	Dials Remote Extensions associated with an external phone number. Functionality similar to a Local Extension.
300-309	Dials Extension Ring Groups - 10 in total for the entire system. Mapped to Local Extensions(s), with specific fall through options.
4	User Defined - Mapped to an Extension, Ring Group, Auto Attendant, Voice mailbox, Announcement or Perform no action.
5	User Defined - Mapped to an Extension, Ring Group, Auto Attendant, Voice mailbox, Announcement or Perform no action.
6	Enters Call Back configuration.
*7(xxx...)	PBX Transfer - A flash hook transfer with disconnect after dialed.
81-88, 9	Access to line Hunt Groups for Call Bridge - Password protected at the Auto Attendant.
80	Call Bridge using Same Line Connect. Requires 3-Way Calling/Conference on the line.
*111-118 *211-218 *410-419	Enter Internal voicemail to leave a message.
**111-118 **211-218 **410-419	Internal voicemail retrieval/access.

Appendix D - Safety Precautions and Regulatory Information

Safety Precautions

Before using TalkSwitch, please review and ensure the following safety instructions are adhered to:

1. Read, Follow and Retain Instructions - All safety and operating instructions should be read before operating the equipment, followed and retained for future reference.
2. Heed Warnings - All warnings on the equipment and in the operating instructions should be adhered to.
3. Moisture - Do not place TalkSwitch in a high humidity environment.
4. Heat - Never place TalkSwitch near heat sources such as radiators, floor registers or direct sunlight.
5. Power Supply - The equipment should only be connected to an approved power supply of the type described in the operating instructions or marked on the equipment. Use only the power adapter supplied with TalkSwitch.
6. Damage requiring service - Do not attempt to service the TalkSwitch yourself. Unplug TalkSwitch and refer servicing to a licensed technician when:
   - The plug or power cord has been damaged.
   - TalkSwitch has been exposed to moisture.
   - TalkSwitch does not appear to be operating properly or exhibits a marked change in performance.

Important Notices

FCC and IC Warnings

This equipment complies with Part 15 and 68 of the Federal Communications Commission (FCC) rules in the United States. It also complies with regulations RSS210 and CS-03 of Industry Canada and Science Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

FCC Part 15:

NOTE: This equipment has been tested and found to comply with the limits for a "CLASS B" Digital Device pursuant to Part 15 of the FCC rules. These limits are designed to provide a reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with these instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different to that which the receiver is connected.
- Consult the dealer or an experienced Radio/TV technician for help.

► This CLASS B Digital apparatus meets all requirements of the Canadian interference-causing equipment regulations.

► Changes or modifications not expressly approved by Centrepoint Technologies could void the user's authority to operate the equipment.

FCC Part 68

Notice: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee that the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local Telecommunications Company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

► Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

A label is located on the underside of the base unit containing both the FCC registration number and Ringer Equivalency Number (REN) or the IC registration number and Load Number. You must, upon request, provide this information to your local telephone company.

The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local Telephone Company.

► This equipment is compatible with inductively coupled hearing aids.

Service

Should you experience trouble with this telephone equipment, Model CT-TS01, TalkSwitch, for repair or warranty information, please contact Centrepoint Technologies. See Appendix E, "TalkSwitch One Year Limited Warranty", for contact information.

If the equipment is causing harm to the telephone network, the Telephone Company may request that you disconnect the equipment until the problem is corrected.

This equipment cannot be used on public coin telephone services provide by the telephone company. Connection to party line service is subject to state tariffs.

The FCC requires that you connect your cordless telephone to the nation-wide telephone network through a modular telephone jack (USOC, RF11C, RJ11W, or RJ14).

Your telephone company may discontinue your service if your equipment causes harm to the telephone network. They will notify you in advance of disconnection, if possible. During notification, you will be informed of your right to file a complaint to the FCC.

Occasionally, your telephone company may make changes in its facilities, equipment, operation, or procedures that could affect the operation of your equipment. If so, you will be given advance notice of the change to give you an opportunity to maintain uninterrupted service.

Fax Branding

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or any other electronic device, including Fax machines and Fax modems, to send any message unless such message clearly contains a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.)

Appendix E - TalkSwitch One Year Warranty

The Original end-user purchaser acknowledges that he or she has read the limited One-Year Warranty and Warranty Disclaimers and understands the same and agrees to be bound by its terms and conditions.

Centrepoint Technologies warrants to the original end-user purchaser that TalkSwitch meets applicable specifications (as set forth in the product descriptions in the technical manuals) and to be free from defects in materials and workmanship for a period of one year from the date of purchase (proof of purchase required). If Centrepoint Technologies receives notice of such defects, Centrepoint Technologies will, at its discretion, either repair or replace products that prove to be defective.

The above warranty shall not apply to defects resulting from improper or inadequate maintenance, installation, end-user supplied software or interfacing, modifications or attempted modifications, misuse, damage from corrosive environments, moisture, shipping, high voltage surges from external power sources such as power line, telephone line or connected equipment, or operation outside of the specifications for the product. This warranty is not valid when the product is sold by the original 'end-user' purchaser or to any product with an altered or defaced serial number.

Incidental and consequential damages caused by malfunction, defect, or otherwise and with respect to breach of any expressed or implied warranty are not the responsibility of Centrepoint Technologies and to the extent permitted by law, are hereby excluded both for property and to the extent not unconscionable, for personal injury or damage.

In no event will Centrepoint Technologies be liable to the user for damages, including any lost profits, lost savings or other incidental or consequential damages arising out of or inability to use such product, even if Centrepoint Technologies or an authorized Centrepoint Technologies dealer has been advised of the possibility of such damages, or for any claim for any other party. In any event, the liability of Centrepoint Technologies shall not exceed the purchase price of the product.

There is no assumption of liability as a consequence of any of the following events:

1. Shipment to or from Centrepoint Technologies or the customer; and
2. Forces beyond the control of Centrepoint Technologies including, but not limited to, an act of God, war, insurrection, civil disturbances, natural disasters, labour disputes or government regulations.

The original 'end-user' purchaser's sole and exclusively remedy hereunder shall be limited to repair or replacement specified herein.

DOC Compliance

This digital apparatus does not exceed the Class B limits for radio noise emissions for digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

The FCC Statement is located in Appendix D, "Safety Precautions and Regulatory Information".

Warranty Service

To be eligible to obtain warranty service you must first complete and send or fax the Warranty Registration Card to Centrepoint Technologies. If you fail to do so, Centrepoint Technologies will not be able to provide you with any kind of warranty service.

(The Warranty Registration Card is included with this manual).

To obtain warranty service, products must be sent to a service facility designated by Centrepoint Technologies. The original end-user purchaser shall pay all shipping charges, duties and taxes for products sent to Centrepoint Technologies for warranty service. Centrepoint Technologies shall pay for return of the product to the end-user purchaser.

To obtain Warranty service:

1. Obtain a Warranty Return Authorization (WRA) number. You can obtain this number by contacting the Technical Support department at Centrepoint Technologies (613) 725-2980. Please have your model and serial number available when you call.
2. Include a copy of your proof of purchase and a written explanation of the problem; this will enable us to expedite your repair.
3. Attach the shipping label to the exterior of the package.
4. On the shipping label, be sure to include the WRA number obtained from Centrepoint Technologies.
5. Ship the product (prepaid) to:

Centrepoint Technologies
1545 Carling Ave. Suite 510
Ottawa, Ontario
K1Z 8P9
Canada

If the product is being shipped from outside of Canada, the following statement must be included on the package. 'Canadian Goods Being Returned to Canada'.

Failure to include the information indicated above will result in the package being refused.

Appendix F - Return Policy

Products purchased directly from Centrepoint Technologies:
To the original end-user purchaser Centrepoint Technologies offers a '30 day money-back' guarantee (from date of purchase). For information regarding product servicing, please refer to the TalkSwitch One Year Limited Warranty. Centrepoint Technologies will not accept product returns outside of its return policy.

To Return products which were purchased directly from Centrepoint Technologies:

1. Obtain a Return Merchandise Authorization (RMA) number. You can obtain this number by contacting the Technical Support department at Centrepoint Technologies (613) 725-2980. Please have your model and serial number available when you call.
2. Include a copy of your proof of purchase and a written explanation of the reason for the return; this will allow us to expedite your refund.
3. Attach the shipping label to the exterior of the package.
4. On the shipping label, be sure to include the RMA number obtained from Centrepoint Technologies.
5. Ship the product (prepaid) to:

Centrepoint Technologies
1545 Carling Ave. Suite 510
Ottawa, Ontario
K1Z 8P9
Canada

If the product is being shipped from outside of Canada, the following statement must be included on the package. 'Canadian Goods Being Returned to Canada'.

► Important: The Centrepoint Technologies Return Policy applies only for products purchased directly from Centrepoint Technologies. The Return Policy for products purchased from an authorized Centrepoint Technologies dealer is determined by the dealer (the retail outlet where the product was purchased). Please contact your retailer for information regarding their return policy; do not return the product directly to Centrepoint Technologies.

Appendix G - TalkSwitch and Power Interruptions

TalkSwitch settings and configurations:

In the event of a power failure, your TalkSwitch settings and configurations will not be lost.

TalkSwitch's feature settings (configuration) are stored in an EEPROM. An EEPROM is a form of non-volatile memory. Non-volatile memory means that your feature settings (configurations) remain in TalkSwitch's memory despite interruptions in TalkSwitch's power supply.

Calling Features:

In the event of a power failure, no TalkSwitch features or capabilities will be available other than:

- Local Extension 114 can make or receive calls on Line 1

In the event of a power return, all TalkSwitch features and capabilities will be re-established.

Mode Scheduling and Power Interruptions:

When the power supply to TalkSwitch has been interrupted, TalkSwitch's internal clock will continue to run for approxiamtely 12 hours. If you have enabled TalkSwitch's Automatic Mode Scheduling feature, it will not function properly until TalkSwitch's internal clock is reset via a Caller ID call or with the TalkSwitch configuration software in the Mode tab under Call Handling. When power is restored to TalkSwitch, TalkSwitch will check the time and determine the mode it should be in according to the configuration and set itself to that mode.

To check the current mode of operation, dial # at a Local Extension to enter command mode then enter a password if required. Next, dial 30 then #. TalkSwitch will report the current mode.

Glossary

* (Star/Asterisk Sign)
The character on the bottom left of your touchtone telephone keypad.

(Pound Sign)
The character on the bottom right of your touchtone telephone keypad. It is also commonly called the number sign.

3-Way Calling/Conference
A service provided by telephone companies which allows you to connect parties on three different telephone lines together for one conversation.

3-Way Conference Call
Connecting three parties together for one telephone conversation. TalkSwitch offers its own 3-Way Conference feature and also allows you to use the 3-Way Conference (Calling) service provided by local telephone companies.

Analog
All sound actually begins in the form of sine waves and must be in this form to be heard by the human ear. Analog devices (phones, answering machines, etc.) transmit and receive sound in the form of 'sine waves'. The telephone lines in your home are also designed to carry analog signals (sine waves). TalkSwitch is an analog device and will work with any other analog device or telephone system.

Auto Attendant Message
TalkSwitch's electronic attendant. A self-recorded message that greets and directs callers to select an extension number based on information provided in the message.

BPS
Bits Per Second. A measure of how fast a modem can transmit and receive data. The TalkSwitch modem can transmit and receive data at a rate of up to 56,000 bps.

Call Back
A TalkSwitch feature which, once activated, instructs TalkSwitch to call you back at a preset Out-of-Office telephone number. You can then access TalkSwitch's Call Bridge feature. TalkSwitch offers two ways to activate Call Back - Prompted and Auto

Call Bridge
A TalkSwitch feature which 'bridges' together calls from two different remote locations. Call Bridge allows you to place long distance calls from your office telephone lines even when you are out of the office.

Call Forward
A TalkSwitch feature which forwards calls to one of 10 or more Remote Extensions.

Caller ID
A service provided by telephone companies which transmits information about incoming calls (callers name and telephone number). The Caller ID information is transmitted between the first and second ring.

Call Waiting
A service provided by telephone companies which allows you to accept a second incoming call on a telephone line that is already in use. Call Waiting Allows you to 'toggle' from one caller to the other.

Central Office

Your local telephone company or public exchange network.

Centrex/Plexar

Central Office Exchange Service. A type of PBX service offered by the telephone company on a 'pay per service' basis. All call switching occurs at a local telephone station instead of a company's premises.

CNG

A 'chirping' tone emitted by fax modems and most fax machines to initiate contact with another fax machine/modem.

CO

Central Office.

COM Port

Communications Port. Internal virtual pathways used to transmit data to and from a PC's exterior Serial Port and software running on the PC. The majority of PCs have four Com Ports: COM1, COM2, COM3, and COM4. Most software programs gain access to the Com Ports via system interrupts (IRQs) and only two IRQs are reserved for the four ports. If you have two devices using Com Ports that share an IRQ, you cannot use the devices simultaneously. Typically, COM1 and COM3 use IRQ4, while COM2 and COM4 use IRQ3.

Communications Software

Software that makes it possible to send and receive data over telephone lines via modems.

Compression (Data)

Storing information in a format that requires less space than usual. Compression saves transmission time, capacity and storage space.

Computer Telephony Integration

Refers to systems that enable a computer to act as a call center, accepting incoming calls and routing them to the appropriate device or person. Today's CTI systems, like TalkSwitch, are quite sophisticated and can handle all sorts of incoming and outgoing communications, including phone calls, faxes, and Internet messages.

Conference Call

Connecting three or more parties together for one conversation.

Configuration

The way a system is setup. For TalkSwitch the configuration is the collection of values or options you have chosen for each of TalkSwitch's features. Together, the settings for each of these features (The configuration) determine what TalkSwitch will do. TalkSwitch can be configured using the Configuration software or Telephone Keypad Commands.

Connector

The part of a cable that plugs into a port or interface to connect one device to another. Most connectors are either male or female.

CTI

Computer Telephony Integration.

Dialtone

A tone used by the telephone company to indicate to the user that the line is 'free' and available for making calls.

Dial Up Networking

A component in Windows 95/98 that enables you to connect your computer to a network via a modem.

Digit

Any whole number from 0 to 9. The numbers on your telephone keypad can also be referred to as digits.

Digital

Digital devices (phones, answering machines, etc.) convert analog sine waves into digital signals (a combination of zeroes and ones) for storage and/or transmission over digital lines.The digital signal is then converted back to analog sine waves, that can be heard by human ears.

Digitize

To translate into a digital form. For example, optical scanners digitize images by translating them into bit maps. It is also possible to digitize sound, video, and any type of movement. In all these cases, digitization is performed by sampling at discrete intervals. To digitize sound, for example, a device measures a sound wave's amplitude many times per second. These numeric values can then be recorded digitally.

Distinctive Ring

The ability to have more than one telephone number that callers can dial to reach the same telephone line. Each Distinctive Ring number has a distinctive ring cadence or ring sequence. TalkSwitch recognizes Distinctive Ring 1 as 2 short rings. Distinctive Ring 2 is identified as 3 short rings. (Distinctive Ring is also referred to as: Ident-A-Ring, Ident-A-Call, Ring Master,Teen Service, Double Number, Personal Ringing, Ring Plus, Smart Ring Service, Special Ring or Customized Ringing.)

Driver

A program that controls a device. Every device, whether it is a printer, disk drive, or keyboard, must have a driver program. A driver acts like a translator between the device and programs that use the device.

DSP

Digital Signal Processing. Refers to manipulating analog information, such as sound or video that has been converted into a digital form.

DTMF

Dual Tone Multi-Frequency. The system used by touchtone telephones. DTMF assigns a specific frequency, or tone, to each key so that it can easily be identified by a microprocessor.

EEPROM

TalkSwitch's feature settings (configuration) are stored in EEPROM which is a form of non-volatile memory. This means that the feature settings (configurations) remain in TalkSwitch's memory despite interruptions in TalkSwitch's power supply.

Extended AT Commands

An extension of the standard AT Command Set that is specific to TalkSwitch modems. The extended command is indicated by an '!' (e.g. AT!TS).

Extension (Local)

A Local Extension is any telephone or analog device (answering machine, fax, etc.) that is plugged into one of the 'Extensions' jacks located on the back panel of your TalkSwitch.

Extension (Remote)

A call forwarding number that can be any telephone number, in any location.

FCC

Federal Communications Commission. The FCC is the United States federal regulatory agency responsible for the regulation of interstate and international communications by radio, television, wire, satellite and cable.

Firmware

Firmware is a combination of software and hardware. More precisely, it is software (programs or data) that has been written onto hardware (micro-chips). Micro-chips (ROMs, PROMs and EPROMs) that have data or programs recorded on them are called firmware.

Flash button

A button on your telephone. Pressing the Flash button has the same effect as pressing the Link button or depressing and releasing the 'hang up' (switch) hook on a telephone. All of these actions will send a signal to TalkSwitch to put calls on or off hold.

Flash EPROM

TalkSwitch's firmware program (the programming code that operates TalkSwitch) is located on a 'Flash EPROM' chip. This means that the code operating TalkSwitch can be erased and reprogrammed (upgraded) without replacing the chip that contains the code.

Home phone

A Home phone is any telephone using the same telephone line as one of TalkSwitch's Lines, but is not plugged directly into the back of TalkSwitch as an extension.

Icon

A small picture that represents a program, action or feature in the Configuration Software. When you click on an icon, that program, action or feature is activated.

Auto Call Back

Allows you to activate Call Back by dialing one of TalkSwitch's telephone numbers, letting the call ring at least once and then hanging up.

Intercom

A dedicated voice service within a specified user environment. TalkSwitch offers intercom capabilities between its Local Extensions.

Interface

Something that connects two separate entities. A user interface is the part of a program that connects the computer with a human operator (user).

Internet

A global network connecting millions of computers. Unlike online service networks (.com, .ca, .net, etc.) which are centrally controlled, the Internet is decentralized by design. Each Internet computer, called a host, is independent.

IRQ

Interrupt Request Line. Hardware lines found in PCs over which devices can send interrupt signals to the microprocessor. IRQs allow multiple devices attached to your PC to share the micro processors resources in an orderly fashion. When you add a new device to a PC, you sometimes need to set which IRQ number the device will use.

ISDN

Integrated Services Digital Network. The same lines are used for many different types of services, such as telephone, data, electronic mail and facsimile. ISDN specifications let large quantities of data (wide-bandwidth) flow from one location to another using the public telephone network. Under ISDN, a phone call can transfer 64 kilobits of digital data per second.

Keypad Commands

Combinations of digits that are used to configure TalkSwitch from a touchtone telephone.

Keypad (Telephone)

The push buttons on a telephone.

Key Telephone System

With Key Telephone Systems, access to telephone lines and calling features is controlled internally within each telephone unit. Users can gain direct access to telephone lines, etc. by pressing a key (or button) on their telephone.

LED

Light Emitting Diode. An electronic device that lights up when electricity is passed through it. LEDs are used in displays on electronic devices such as computers. TalkSwitch has five LEDs on its front panel. They show which telephone is in use, whether data is being transferred to or received from an attached PC, and which Mode setting is in use.

Link button

On most telephones, pressing the Link button has the same effect as pressing the Flash button or depressing and releasing the 'hang up' (switch) hook. However, on some telephones, the function of the Link button is internal to the telephone and pressing it will have no effect on TalkSwitch.

Modem

Acronym for MODulator-DEModulator. A modem is a device or program that converts digital information stored on a Computer into analog signals for transmission over telephone lines and, in reverse, converts analog signals into digital. TalkSwitch has a built-in modem which can switch between transmitting data, voice or fax.

Modem (External)

A separate self-contained unit which attaches to your PC via a Serial Port or USB port.

Modem (Internal)

Modems that come as an expansion board that can be inserted into a vacant expansion slot on a PC. These are also called onboard modems.

Modem (voice/fax/data)

A modem which supports a switch to change between voice and data modes. In data mode, the modem acts like a regular modem. In voice mode, the modem acts like a regular telephone. Modems that support a voice/data switch have a built-in loudspeaker and microphone for voice communication.

Modes

A TalkSwitch feature which allows you to store two distinct incoming call handling configurations (Mode 1, Mode 2, Mode 3, and Mode 4).

Monitor (TalkSwitch Monitor)

A feature included with the Software Configuration package. The Monitor provides a graphical representation of telephone traffic as it flows through the TalkSwitch system.

Msec - Millisecond

One thousandth of a second or one thousand microseconds.

Network

A Group of two or more computer systems linked together.

PBX

Private Branch Exchange. A PBX is a private telephone network used within an Enterprise. Access to telephone lines and services are controlled by the PBX. A PBX allows many users (extensions) to share a smaller number of telephone lines and have access to additional call handling benefits (call hold, intercom calling, etc.). TalkSwitch is a 'mini' or 'micro' PBX.

Phone Load

See Ringing Equivalency.

Prompt

Recorded instructions delivered by voice processing units. TalkSwitch provides prompts for you when using such features as Call Back, Call Bridge and Selective Call Forward. Prompts are also provided when configuring TalkSwitch using a telephone Keypad and for callers being put 'on hold'.

Registered Jacks

Telephone and data plugs registered with the FCC.

Ringing Equivalency

(Ringer Equivalency Number [REN]) A number, determined in accordance with the US Code of Federal Regulations, which represents the ringer loading effect on a line. A ringer equivalency number of 1 represents the loading effect of a traditional telephone set ringing circuit.

RJ-11

Registered Jacks 11 is the most common modular jack in the world. It is usually used to connect 'single line' telephonic devices such as telephones, fax machines and modems. It supports 2 conductors.

RJ-14

Registered Jacks 14 is a technical term for a telephone jack that looks similar to the standard RJ-11. However, the RJ-14 is usually used to connect 'two line' telephonic devices. It supports 4 conductors.

RJ-45

Registered Jacks 45 is a technical term for a telephone jack that supports 8 conductors and is used generally for Networking applications.

Prompted Call Back

Allows you to activate Call Back by dialing one of TalkSwitch's telephone numbers, letting the Auto Attendant answer and then entering the Call Back settings.

Routing

Determining the path that a message or call is to take over circuits. TalkSwitch offers 'routing' of incoming calls using DSP technology.

Serial Communication

A type of electronic communication that, unlike parallel communication, requires that data bits be sent one after the other. Modems rely on serial communication to send data over telephone lines.

Shortcut Key

A special key combination that causes a specific command to be executed. Typically, shortcut keys combine the Ctrl or Alt keys with some other keys. In Windows environments, for example, Ctrl +C is used as the shortcut key to copy. On PCs, the function keys are also often used as shortcut keys.

S/sec

Samples per second.

Serial Port

Serial Ports are physical 'plug-ins'. They allow two devices to exchange information or data. A Serial Cable is used to connect the two Serial Ports together.

SOHO

Acronym for Small Office/Home Office. It's a burgeoning market comprised of solo professionals, part-time work-at-homes, telecommuters and small businesses.

TAPI

Abbreviation of Telephony Application Programming Interface, TAPI, introduced in 1993 as the result of joint development by Microsoft and Intel, is a standard for applications connecting a PC running Windows to telephone services. TAPI defines standards for simple call control and for manipulating call content. TalkSwitch's modem is TAPI compliant.

Telephony

The science of translating sound into electrical signals, transmitting them, and then converting them back to sound; that is, the science of telephones. The term is used frequently to refer to computer hardware and software that performs functions traditionally performed by telephone equipment.

Tel Lines 1, 2, 3, or 4

A jack or plug-in on the back panel of TalkSwitch which can accept a RJ-11 plug from either a telephone line or PBX system. A single line telephone cable can be plugged into this jack and will become a usable TalkSwitch Line.

Telephone Keypad

The collection of push buttons on a touchtone telephone.

Telephone Wall Jack

A wall outlet for a standard telephone jack.

Terminal Adapter

A device that allows analog devices to be used on ISDN (digital) lines. Terminal Adapters are somewhat similar to modems.

Touchtone telephone

A push-button telephone which emits distinctive (DTMF) tones as different buttons on the keypad are pressed.

Two Line Telephone

A telephone which allows you to make and receive calls on two separate telephone lines.

TX/RX

An acronym for transmit and receive.

USB

Short for Universal Serial Bus, the USB connection supports more bandwidth than a serial or parallel connection.

Virtual Extension

A telephone or other communications device not physically connected to TalkSwitch as an extension, but which provides the same functionality. In general, the term 'virtual' distinguishes something that is merely conceptual from something that has physical reality. TalkSwitch's Remote Extensions are virtual extensions.

Voicemail (Call Answer)

A service provided by TalkSwitch or telephone companies which gives callers the opportunity to leave a message when your extension or telephone line is busy or unanswered.

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